

Wed Feb 18 17:21:29 2004

US-09-643-260-3.rpr

SEQ ID NO: 3; Alignment result 1.
Database: PIR-F6; Accession: D70672

Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2004, 14:12:09, Search time 6.5921 Seconds
(without alignments)
87.531 Million cell updates/sec

Title: US-09-643-260-3

Perfect score: 26

Sequence: 1 LDASAL 6

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 283308 seqs, 9616682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database: PIR-F6:
1: PIR1:*
2: PIR2:*
3: PIR3:*
4: PIR4:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	26	100.0	84/2	D70672
2	26	100.0	129	2
3	26	100.0	130	2
4	26	100.0	171	2
5	26	100.0	230	2
6	26	100.0	259	2
7	26	100.0	281	2
8	26	100.0	334	2
9	26	100.0	383	2
10	26	100.0	394	2
11	26	100.0	394	2
12	26	100.0	437	2
13	26	100.0	483	2
14	26	100.0	512	2
15	26	100.0	513	2
16	26	100.0	513	2
17	26	100.0	516	2
18	26	100.0	550	2
19	26	100.0	586	2
20	26	100.0	638	2
21	26	100.0	855	2
22	26	100.0	894	2
23	26	100.0	920	2
24	26	100.0	1006	2
25	26	100.0	1313	1
26	26	100.0	1313	1
27	26	100.0	157	2
28	26	100.0	166	2
29	26	100.0	179	2

30	24	92.3	197	2	A64484	conserved hypothet
31	24	92.3	279	2	A83986	hypothetical prote
32	24	92.3	292	2	A95163	hypothetical prote
33	24	92.3	292	2	H98028	hypothetical prote
34	24	92.3	294	2	T26946	hypothetical prote
35	24	92.3	298	2	A41227	protein kinase (EC
36	24	92.3	304	2	T42939	hypothetical prote
37	24	92.3	326	2	T09995	phosphoprotein pho
38	24	92.3	346	1	I78840	protein kinase (EC
39	24	92.3	359	1	ADBC2A	fructose-bisphosph
40	24	92.3	359	2	D91103	fructose-bisphosph
41	24	92.3	359	2	AC0875	fructose-1,6-bisph
42	24	92.3	384	2	G85948	fructose-bisphosph
43	24	92.3	393	2	S63191	adenosylmethionine
44	24	92.3	401	2	AC2113	alanine racemase
45	24	92.3	405	1	XUCBSD	dihydrolipoamide S

ALIGNMENTS

RESULT 1
D70672
hypothetical protein RV2975C - Mycobacterium tuberculosis (strain H37RV)
C:Species: Mycobacterium tuberculosis
C:Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999
C:Accession: D70672
R:COLE, S.T.; BROSCH, R.; PARKHILL, J.; GARNIER, T.; CHURCHER, C.; HARRIS, D.; GORD
/ CONNOR, R.; DAVIES, R.; DEVILIN, K.; FELTWEILL, T.; GENTLES, S.; HAMLIN, N.; HOLROY
Rajandream, M.A.; ROGERS, J.; RUTTER, S.; SEEGER, K.; SKELTON, S.; SQUARES, S.
Nature 393, 537-544, 1998
A:Authors: SQUARES, R.; SULSTON, J.E.; TAYLOR, K.; WHITEHEAD, S.; BARRELL, B.G.
A:Title: Deciphering the biology of Mycobacterium tuberculosis from the complete ge
A:Reference number: A70500; PMID:98295987; PMID:9634230
A:Accession: D70672
A:Status: preliminary; nucleic acid sequence not shown; translation not shown
A:Molecule type: DNA
A:Residue type: 1-84 <COD>
A:Cross-references: GB:283018; GB:AL123456; NID:G3261671; PIDN:CA05437.1; PID:e283
A:Experimental source: strain H37RV
C:Genetics:
A:Gene: RV2975C

Query Match
Best Local Similarity 100.0%; Score 26; DB 2; Length 84;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 LDASAL 6
DB 8 LDASAL 13

RESULT 2
T31900
hypothetical protein 633 - Sphingomonas aromaticivorans plasmid pNL1
C:Species: Sphingomonas aromaticivorans
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 11-Jan-2000
R:ROMINE, M.F.; STILLWELL, L.C.; WONG, K.K.; THURSTON, S.J.; SISK, E.C.; SENSEN, C
submitted to the EMBL Data Library, July 1998
A:Description: Complete sequence of a 184 kb catabolic plasmid from Sphingomonas a
A:Reference number: Z20992
A:Accession: T31200
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-129 <ROM>
A:Cross-references: EMBL:AF079317; NID:G3378261; PID:G3378341; PIDN:AAD03924.1
C:Genetics:
A:Genome: plasmid pNL1
A:Note: orf633
Query Match
Best Local Similarity 100.0%; Score 26; DB 2; Length 129;
Matches 100.0%; Pred. No. 19;

GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: February 18, 2004, 13:37:19 / Search time 22.7763 Seconds

(Without alignments)
41.814 Million cell updates/sec

Title: US-09-643-260-2

Perfect score: 40

Sequence: 1 LDMSWL 6

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

A_Geneseq_19Jun03:*

1: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1980.DAT:*
2: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1981.DAT:*
3: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1982.DAT:*
4: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1983.DAT:*
5: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1984.DAT:*
6: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1985.DAT:*
7: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1986.DAT:*
8: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1987.DAT:*
9: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1988.DAT:*
10: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1989.DAT:*
11: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1990.DAT:*
12: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1991.DAT:*
13: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1992.DAT:*
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15: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1994.DAT:*
16: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1995.DAT:*
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19: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1998.DAT:*
20: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA1999.DAT:*
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22: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2001.DAT:*
23: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2002.DAT:*
24: /SIDSL/gcgdata/geneseq/geneseq-emb1/AA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	40	100.0	6	23	AB08725
2	40	100.0	6	23	AA048530
3	40	100.0	6	23	AA048530
4	40	100.0	6	24	AB08418
5	40	100.0	7	23	AA048534
6	40	100.0	8	23	AA048537
7	40	100.0	8	23	AA048535
8	40	100.0	9	20	AA048532
9	40	100.0	9	23	AA048526

10	40	100.0	9	23	AA048529
11	40	100.0	9	23	AA048532
12	40	100.0	9	23	AA048533
13	40	100.0	10	23	AB077313
14	40	100.0	10	23	AA048528
15	40	100.0	10	23	AA048531
16	40	100.0	11	23	AB077311
17	40	100.0	11	23	AA048506
18	40	100.0	11	23	AA048525
19	40	100.0	11	23	AA048533
20	40	100.0	13	23	AA048640
21	40	100.0	13	23	AA048641
22	40	100.0	13	23	AA048642
23	40	100.0	13	23	AA048645
24	40	100.0	17	23	AA048638
25	40	100.0	17	23	AA048639
26	40	100.0	17	23	AA048643
27	40	100.0	17	23	AA048644
28	40	100.0	18	23	AA048628
29	40	100.0	18	23	AA048629
30	40	100.0	18	23	AA048632
31	40	100.0	18	23	AA048633
32	40	100.0	22	23	AA048630
33	40	100.0	22	23	AA048631
34	40	100.0	22	23	AA048634
35	40	100.0	22	23	AA048635
36	40	100.0	22	23	AA048636
37	40	100.0	22	23	AA048637
38	40	100.0	28	23	AB08740
39	40	100.0	28	23	AA048523
40	40	100.0	28	24	AB08434
41	40	100.0	36	23	AA048652
42	40	100.0	36	24	AB08436
43	40	100.0	220	24	AA048488
44	40	100.0	552	21	AA048483
45	40	100.0	745	19	AA048509

ALIGNMENTS

RESULT 1	AB08725	standard; peptide; 6 AA.
ID	AB08725	
XX	AB08725	
AC	AB08725	
XX	AB08725	
DT	14-JUN-2002	(first entry)
XX	14-JUN-2002	
DE	IKKbeta NEMO binding domain peptide SEQ ID NO 2.	
XX	IKKbeta NEMO binding domain peptide	
XX	IKKbeta NEMO binding domain peptide	
KW	kinase activation; leukocyte; inflammation; E-selectin; osteoclast;	
KW	autoimmune disease; transplant rejection; osteoporosis; cancer;	
KW	Alzheimer's disease; viral; infection; asthma; anaphylaxis; psoriasis;	
KW	rheumatoid arthritis; Crohn's disease; multiple sclerosis; HIV;	
KW	corticosteroid; immunosuppression; anti-inflammatory; immunosuppressive;	
KW	osteopontin; cytoskeletal; neurotrophic; osteoprotection; anti-HIV; human;	
KW	antiarthritic; osteopontin; osteopontin; antiarthritic; antineoplastic;	
KW	antiarthritic; osteopontin; antineoplastic; antineoplastic;	
XX	Homo sapiens	
XX	OS	
XX	EN	WO200183547-A2.
XX	PD	08-NOV-2001.
XX	PF	02-MAY-2001; 2001WO-US40654.
PR	02-MAY-2000; 2000US-201261P.	
XX	22-JUN-2000; 2000US-0643260.	

PA (UYVA) UNIV YALE.
 XX May MJ, Ghosh S;
 XX WPI; 2002-179350/23.
 XX
 XX Modulating NF-kappaB induction in a cell, useful for treating e.g.
 PT inflammatory disorders, osteoporosis and cancer, comprises contacting a
 PT cell with an anti-inflammatory compound comprising at least one NEMO
 PT binding domain -
 XX
 XX Claim 23; Page 44; 82pp; English.
 PS
 XX The invention relates to modulating NF-kappaB (NF-kB) induction in a cell
 CC comprises contacting a cell with an anti-inflammatory compound
 CC (ABB08725-ABB08742) comprising at least one NEMO binding domain
 CC (ABB77313). The compound has acts through selective inhibition of
 CC cytokine-mediated NF-kB activation by blocking the interaction of NEMO
 CC with IKKbeta at the NEMO binding domain. Blockage of IKKbeta-NEMO
 CC interaction results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkbppaB. The compound may also
 CC act (directly or indirectly) by blocking the recruitment of leukocytes
 CC into sites of acute and chronic inflammation, by down-regulating the
 CC expression of E-selectin on leukocytes or by blocking osteoclast
 CC differentiation. The compound is useful in treating NF-kB mediated
 CC conditions, where the condition is an inflammatory disorder, an
 CC autoimmune disease, transplant rejection, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, a viral infection or ataxia
 CC telangiectasia. The inflammatory disorder is asthma, allergies,
 CC urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis,
 CC rheumatoid arthritis, osteoarthritis, psoriatic arthritis, inflammatory
 CC bowel disease, chronic obstructive pulmonary disease, vasculitis and
 CC bursitis. The inflammatory disorder may also be dermatitis, eczema,
 CC psoriasis, osteoarthritis, psoriatic arthritis, lupus and
 CC sporadic arthritis. Also for Crohn's disease, ulcerative colitis,
 CC polyomyelitis, scleroderma, Wegner's granulomatosis, temporal arteritis,
 CC cryoglobulinemia or multiple sclerosis. For chronic viral infections
 CC caused by Epstein-Barr, cytomegalovirus or herpes simplex. Other viral
 CC diseases include HIV and influenza. The compound may also be useful for
 CC treating anaphylaxis, drug and food sensitivity, contact dermatitis,
 CC sunburn or aging. The compound may be used to replace corticosteroids in
 CC any application in which corticosteroids are used, including
 CC immunosuppression in transplants and cancer therapy. Also for identifying
 CC anti-inflammatory compounds and for diagnosis of an inflammatory disorder.
 CC The compound may be administered alone or in combination with other known
 CC anti-inflammatory agents. The present sequence is that of the NEMO
 CC binding domain of IKKbeta.
 CC
 SQ Sequence 6 AA;
 QY
 Db 1 LDMSWL 6
 1 LDMSWL 6
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query Match 100.0%; Score 40; DB 23; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 RESULT 2
 ID AAM48530 standard; Peptide; 6 AA.
 XX
 XX AAM48530;
 DT 20-MAR-2002 (first entry)
 XX
 DE Anti-inflammatory peptide SEQ ID NO 33.
 XX
 XX Anti-inflammatory; antiasthmatic; cyostatic; antipsoriatic; nootropic;
 KM antirheumatic; antiarthritic; osteoparitic; antibacterial; virucide;
 KM immunosuppressive; dermatologic; neuroprotective; antiatherosclerotic;
 KM anti-allergic; membrane translocation domain; NEMO binding domain; eczema;

KM cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KM rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KM autoimmune disorder; multiple sclerosis; transplant rejection;
 KM osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KM ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 XX Synthetic.
 XX W0200183554-A2.
 PN
 XX
 XX 06-NOV-2001.
 PD
 XX
 XX 02-MAY-2001; 2001WO-US14346.
 PP
 XX
 XX 02-MAY-2000; 2000US-201261P.
 PR
 XX 22-AUG-2000; 2000US-0643260.
 PR
 XX (PRAE-) PRACIS PHARM INC.
 PA (UYVA) UNIV YALE.
 XX
 XX May MJ, Ghosh S, Findeis MA, Phillips K;
 XX WPI; 2002-121889/16.
 DR
 XX
 XX Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -
 XX
 PS Claim 6; Page 61; 88pp; English.
 XX
 XX The invention relates to an antiinflammatory compound (especially
 CC AAM48528-AAM48645), comprising a membrane translocation domain
 CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic,
 CC cyostatic, antipsoriatic, antirheumatic, antiarthritic, osteoparitic,
 CC antibacterial, immunosuppressive, dermatologic, neuroprotective,
 CC nootropic, antiatherosclerotic, virucide and anti-allergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis; autoimmune diseases such as lupus, polyomyelitis, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 CC
 SQ Sequence 6 AA;
 QY
 Db 1 LDMSWL 6
 1 LDMSWL 6
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Query Match 100.0%; Score 40; DB 23; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 RESULT 3
 ID AAM48655 standard; Peptide; 6 AA.
 XX
 XX AAM48655;
 DT 20-MAR-2002 (first entry)
 XX

DE NBD mutant peptide SEQ ID NO 2.

XX Antinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; vitruclide;
 KW immunosuppressive; dermatological; neuroprotective; antithrombotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NF-kappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX Synthetic.

EN WO2001:83554-A2.

XX 08-NOV-2001.

PF 02-MAY-2001; 2001MO-US14346.

PR 02-MAY-2000; 2000US-201261P.

PR 22-AUG-2000; 2000US-0643260.

XX (PRAE-) PRAECIS PHARM INC.

PA (UYA) UNIV YALE.

PI May MJ, Ghosh S, Findeis WA, Phillips K;

XX WPI; 2002-121889/16.

XX Novel antinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -

XX Example 6; Page 47; 88pp; English.

XX The invention relates to an antinflammatory compound (especially

CC AAM48628-AAM48645), comprising a membrane translocation domain

CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15

CC amino acid residues, fused to a NEMO binding sequence

CC (AAM48525-AAM48619). The antinflammatory compounds have antiasthmatic,

CC cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic,

CC antibacterial, immunosuppressive, dermatological, neuroprotective,

CC nootropic, antithrombotic, vitruclide and anti-allergic activity. The

CC compounds act as selective inhibitors of cytokine-mediated NF-kappaB

CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at

CC the NEMO binding domain that results in inhibition of IKKbeta kinase

CC activation and subsequent decreased phosphorylation of IkappaB. The

CC compounds are useful for treating inflammatory disorders, e.g. asthma,

CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,

CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,

CC bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma,

CC glomerulonephritis, multiple sclerosis; transplant rejection; osteoporosis;

CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia

CC telangiectasia. The compounds are also useful for treating

CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,

CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and

CC arthritis.

XX Sequence 6 AA;

XX Query Match 100.0%; Score 40; DB 23; Length 6;

XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;

XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LDWSWL 6

DB 1 LDWSWL 6

RESULT 4
 ABU08418

ID ABU08418 standard; peptide; 6 AA.

XX AC ABU08418;

XX 12-JUN-2003 (first entry)

DE Human NEMO binding site (NBD) mutant peptide #1.

XX Human; antinflammatory compound; NEMO binding domain; NBD; IKKbeta;

XX IkappaB kinase-beta; IkappaB kinase-alpha; IKKalpha; NF-kappaB;

XX nuclear factor-kappaB induction; inflammatory disorder;

XX autoimmune disease; osteoporosis; cancer; Alzheimer's disease;

XX atherosclerosis; viral infection; Ataxia telangiectasia;

XX transplant detection; immunosuppressive; osteopathic;

XX cytostatic; nootropic; neuroprotective; antithrombotic; vitruclide;

XX vasotropic; antirheumatic; antiarthritic; mutant; mutein.

XX Homo sapiens.

OS Synthetic.

XX US2002156000-A1.

XX 24-OCT-2002.

XX 02-MAY-2001; 2001US-0847940.

XX 02-MAY-2000; 2000US-201261P.

XX 22-AUG-2000; 2000US-0643260.

XX (MAYM/) MAY M J.

XX (GHOSH/) GHOSH S.

XX May MJ, Ghosh S;

XX WPI; 2003-209142/20.

DR N-PDB; ABX94269, ABX94270.

XX Novel antinflammatory peptide compounds comprising NEMO binding

PT domain, useful for modulating NF-kappaB induction in a cell and for

PT treating NF-kappaB-mediated inflammation disorders e.g., asthma,

XX psoriasis, vasculitis -

XX Claim 22; Page 17; 47pp; English.

XX The present invention relates to antinflammatory compounds comprising

CC NEMO binding domain (NBD) peptides. The NEMO binding domains are

CC found on IkappaB kinase-beta (IKKbeta) and IkappaB kinase-alpha

CC (IKKalpha) proteins. The antinflammatory compounds of the invention

CC are useful for modulating nuclear factor-kappaB (NF-kappaB) induction

CC in a cell, where the compounds are capable of blocking the interaction

CC between one or more IKKs such as IKKalpha or IKKbeta, and NEMO. The

CC antinflammatory compound further comprises at least one membrane

CC translocation domain. The compounds are useful for treating

CC inflammatory disorders, autoimmune diseases, osteoporosis, cancer,

CC Alzheimer's disease, atherosclerosis, viral infections, Ataxia

CC telangiectasia, and for transplantation detection. The compounds of

CC the invention block NF-kappaB induction by IKK but do not inhibit

CC the basal activity of NF-kappaB. ABU08418-ABU08432 represent human

CC NBD mutant peptides.

XX Sequence 6 AA;

XX Query Match 100.0%; Score 40; DB 24; Length 6;

XX Best Local Similarity 100.0%; Pred. No. 9.3e+05;

XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LDWSWL 6

DB 1 LDWSWL 6

RESULT 5
 AAM48534

ID AAM48534 standard; Peptide; 7 AA.
 XX AAM48534;
 XX
 DT 20-MAR-2002 (first entry)
 XX
 DE Anti-inflammatory peptide SEQ ID NO 37.
 XX
 XX Anti-inflammatory; antiasthmatic; cytoskeletal; antipsoriatic; nocotropic;
 XX antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 XX immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 XX cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 XX autoimmune disorder; multiple sclerosis; transplant rejection;
 XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 OS Synthetic.
 XX
 XX WO200183554-A2.
 XX
 PD 08-NOV-2001.
 XX
 XX 02-MAY-2001; 2001WO-US14346.
 XX
 XX 02-MAY-2000; 2000US-201261P.
 XX
 XX 22-AUG-2000; 2000US-0643260.
 XX
 XX (PRAE-) FRAECTIS PHARM INC.
 XX (UYVA) UNIV YALE.
 XX
 XX May MJ, Ghosh S, Findeis MA, Phillips K;
 XX
 XX WPI; 2002-121889/16.
 XX
 DR Novel anti-inflammatory compound comprising membrane translocation
 XX domain fused to NEMO binding sequence, useful for blocking nuclear
 XX factor kappaB activation, and for treating asthma, lung inflammation,
 XX psoriasis -
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 PS Claim 6; Page 61; 88pp; English.
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 CC The invention relates to an anti-inflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain
 CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The anti-inflammatory compounds have antiasthmatic,
 CC cytoskeletal, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC nocotropic, antiatherosclerotic, virucide and antiallergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis, autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 XX
 XX Sequence 7 AA;
 XX
 SQ Query Match 100.0%; Score 40; DB 23; Length 7;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db |||||
 1 LDMSWL 6
 RESULT 6
 AAM48527
 ID AAM48527 standard; Peptide; 8 AA.
 XX
 XX AAM48527;
 XX
 DT 20-MAR-2002 (first entry)
 XX
 XX
 DE Anti-inflammatory peptide SEQ ID NO 30.
 XX
 XX Anti-inflammatory; antiasthmatic; cytoskeletal; antipsoriatic; nocotropic;
 XX antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 XX immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 XX cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 XX autoimmune disorder; multiple sclerosis; transplant rejection;
 XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 OS Synthetic.
 XX
 XX WO200183554-A2.
 XX
 PD 08-NOV-2001.
 XX
 XX 02-MAY-2001; 2001WO-US14346.
 XX
 XX 02-MAY-2000; 2000US-201261P.
 XX
 XX 22-AUG-2000; 2000US-0643260.
 XX
 XX (PRAE-) FRAECTIS PHARM INC.
 XX (UYVA) UNIV YALE.
 XX
 XX May MJ, Ghosh S, Findeis MA, Phillips K;
 XX
 XX WPI; 2002-121889/16.
 XX
 DR Novel anti-inflammatory compound comprising membrane translocation
 XX domain fused to NEMO binding sequence, useful for blocking nuclear
 XX factor kappaB activation, and for treating asthma, lung inflammation,
 XX psoriasis -
 XX
 PS Claim 6; Page 61; 88pp; English.
 XX
 CC The invention relates to an anti-inflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain
 CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The anti-inflammatory compounds have antiasthmatic,
 CC cytoskeletal, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC nocotropic, antiatherosclerotic, virucide and antiallergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis, autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 XX
 XX Sequence 8 AA;
 XX
 SQ

Query Match 100.0%; Score 40; DB 23; Length 8;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDMSWL 6
 DB 3 LDMSWL 8

RESULT 7
 AAM48535
 ID AAM48535 standard; Peptide; 8 AA.

XX AAM48535;
 XX 20-MAR-2002 (first entry)
 XX Anti-inflammatory peptide SEQ ID NO 38.

XX Antihistaminic; antiallergic; cytoprotective; antiproliferative; neurotrophic;
 XX antineoplastic; antidiabetic; osteoprotective; antibacterial; virucide;
 XX immunosuppressive; dermatological; neuroprotective; antithrombotic;
 XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 XX cytokine; NPKappab; Ikappab kinase beta; IKKbeta; cancer; psoriasis;
 XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 XX autoimmune disorder; multiple sclerosis; transplant rejection;
 XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX Synthetic.

XX WO200183554-A2.

XX 08-NOV-2001.

XX 02-MAY-2001; 2001WO-US14346.

XX 02-MAY-2000; 2000US-201261P.

XX 22-AUG-2000; 2000US-0643260.

XX (PRAE-) PRAECIS PHARM INC.

XX (UTYA) UNIV YALE.

XX May MJ, Ghosh S, Findeis MA, Phillips K;

XX WPI; 2002-121889/16.

XX Novel anti-inflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappab activation, and for treating asthma, lung inflammation,
 PT psoriasis

XX Claim 6; Page 61; 88pp; English.

XX The invention relates to an anti-inflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain
 CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48625-AAM48619). The anti-inflammatory compounds have antiallergic,
 CC cytoprotective, antiproliferative, antineoplastic, osteoprotective,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC antidiabetic, antithrombotic, virucide and antiallergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NPKappab
 CC activation by blocking interaction of Ikappab kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of Ikappab. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC osteoporosis, autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia

CC telangiectasia. The compounds are also useful for treating
 CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.

XX Sequence 8 AA;

Query Match 100.0%; Score 40; DB 23; Length 8;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDMSWL 6
 DB 1 LDMSWL 6

RESULT 8
 AAM96182
 ID AAM96182 standard; peptide; 9 AA.

XX AAM96182;

XX 27-APR-1999 (first entry)

XX IKK-alpha polypeptide with binding activity.

XX I-kappa-B kinase; IKK-alpha; gene expression; modulation;
 XX suppression; activation; tumor necrosis factor; TNF; interleukin-1;
 XX IL-1; TNF receptor associated factor; TRAF.

XX Homo sapiens.

XX WO9901541-A1.

XX 14-JAN-1999.

XX 01-JUL-1998; 98WO-US13782.

XX 10-JUL-1997; 97US-0890854.

XX 01-JUL-1997; 97US-0887115.

XX (TULA-) TULARIK INC.

XX Cao Z, Regnier C, Rothe M;

XX WPI; 1999-106044/09.

XX Newly isolated human kinase Ikappab kinase (IKK- α) polypeptides -
 PT useful in screening for agents that modulate the interaction of an
 PT IKK polypeptide to a binding target and for modulating signal
 PT transduction involving Ikappab in a cell

XX Disclosure; Page -; 32pp; English.

XX I-kappa-B kinase (AAM96158), deletion mutants of it retaining
 CC I-kappa-B kinase activity and I-kappa-B polypeptides (comprising a
 CC six residue domain of I-kappa-B containing one of Ser32 and Ser36,
 CC and a candidate agent) can be used to screen for agents that
 CC modulate the interaction of an IKK polypeptide to a binding target.
 CC The modulation of the kinase activity of IKK-alpha forms a method
 CC for modulating signal transduction involving I-kappa-B in a cell.
 CC The IKK-alpha polypeptides are useful for generating oligonucleotide
 CC primers and probes for use in the isolation of natural
 CC IKK-alpha-encoding nucleic acids. The nucleic acids are useful as
 CC translatable transcripts, hybridization probes, polymerase chain
 CC reaction (PCR) probes and primers. Their diagnostic applications
 CC include IKK-alpha hybridization probes for identifying wild-type and
 CC mutant IKK-alpha alleles in clinical and laboratory samples.
 CC Therapeutic application includes the use of IKK-alpha nucleic acids
 CC for modulating cellular expression or intracellular
 CC concentration/availability of active IKK-alpha.
 CC Catalytically inactive IKK-alpha mutants suppress NF-kappa-B
 CC activation induced by tissue necrosis factor (TNF), interleukin-1

CC (IL-1) stimulation, TNF receptor-associated factor (TRAF) and
 CC NF-kappa-B-inducing kinase (NIK) overexpression. Polypeptides of
 CC IKK-alpha showing exemplary binding activity are described in
 CC AAM96165-M96182. These peptides all comprise one of Cys30, Glu543,
 CC Leu604, Thr679, Ser680, Pro684, Thr686 or Ser687 of the full length
 CC IKK-alpha described in AAM96157. Deletion mutants of the invention
 CC comprise at least one of these regions.
 CC N.B. The present sequence is not given in the present specification
 CC but is derived from the sequence given in AAM96157 as specified.

XX Sequence 9 AA:

Query Match 100.0%; Score 40; DB 20; Length 9;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDMSWL 6
 |||||
 Db 2 LDMSWL 7

RESULT 9
 AAM48526
 ID AAM48526 standard; Peptide; 9 AA.
 XX
 AC AAM48526;
 XX

DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 29.

XX Antinflammatory; antiasthmatic; cyostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX OS Synthetic.

XX FN WO200183554-A2.

XX PD 08-NOV-2001.

XX PF 02-MAY-2001; 2001WO-US14346.

XX PR 02-MAY-2000; 2000US-201261P.

XX PR 22-AUG-2000; 2000US-0643260.

XX PA (PRAE-) PRAECIS PHARM INC.

XX PA (UYVA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX DR WPI; 2002-121889/16.

XX Novel antinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis

PS Claim 6; Page 61; 88pp; English.

XX The invention relates to an antinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain
 CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The antinflammatory compounds have antiasthmatic,
 CC cyostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,

CC nootropic, antiatherosclerotic, virucide and antiallergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IKKbeta kinase
 CC activation and subsequent decreased phosphorylation of IkappaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC burns; autoimmune diseases such as lupus, polymyalgia, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.

SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 23; Length 9;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDMSWL 6
 |||||
 Db 1 LDMSWL 6

RESULT 10
 AAM48529
 ID AAM48529 standard; Peptide; 9 AA.
 XX
 AC AAM48529;
 XX

DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 32.

XX Antinflammatory; antiasthmatic; cyostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX OS Synthetic.

XX FN WO200183554-A2.

XX PD 08-NOV-2001.

XX PF 02-MAY-2001; 2001WO-US14346.

XX PR 02-MAY-2000; 2000US-201261P.

XX PR 22-AUG-2000; 2000US-0643260.

XX PA (PRAE-) PRAECIS PHARM INC.

XX PA (UYVA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX DR WPI; 2002-121889/16.

XX Novel antinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis

PS Claim 6; Page 61; 88pp; English.

XX The invention relates to an antinflammatory compound (especially

CC AAM48628-AAM48645), comprising a membrane translocation domain
CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
CC amino acid residues, fused to a NEMO binding sequence
CC (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic,
CC cytoskeletal, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
CC antibacterial, immunosuppressive, dermatological, neuroprotective,
CC nootropic, antiatherosclerotic, virucide and antiallergic activity. The
CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
CC the NEMO binding domain that results in inhibition of IKKbeta kinase
CC activation and subsequent decreased phosphorylation of IkappaB. The
CC compounds are useful for treating inflammatory disorders, e.g. asthma,
CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
CC bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma,
CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
CC telangiectasia. The compounds are also useful for treating
CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
CC arthritis.

CC Sequence 9 AA;

Query Match 100.0%; Score 40; DB 23; Length 9;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDMSWL 6
DB 1 LDMSWL 6

RESULT 11
AAM48532
ID AAM48532 standard; Peptide; 9 AA.

XX AAM48532;

DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 35.

XX Antiinflammatory; antiasthmatic; cytoskeletal; antipsoriatic; nootropic;
XX antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
XX immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
XX cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
XX autoimmune disorder; multiple sclerosis; transplant rejection;
XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.

OS Synthetic.

XX WO200183554-A2.

PN 08-NOV-2001.

XX 02-MAY-2001; 2001WO-US14346.

XX 02-MAY-2000; 2000US-201261P.

PR 22-AUG-2000; 2000US-0643260.

XX (PRAE-) PRAECIS PHARM INC.

PA (UYVA) UNIV YALE.

PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX WPI; 2002-121889/16.

XX Novel antiinflammatory compound comprising membrane translocation
PT domain fused to NEMO binding sequence, useful for blocking nuclear

PT factor kappaB activation, and for treating asthma, lung inflammation,
PT psoriasis -

XX Claim 6; Page 61; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially
CC AAM48628-AAM48645), comprising a membrane translocation domain
CC (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
CC amino acid residues, fused to a NEMO binding sequence

CC (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic,
CC cytoskeletal, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
CC antibacterial, immunosuppressive, dermatological, neuroprotective,
CC nootropic, antiatherosclerotic, virucide and antiallergic activity. The
CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
CC activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
CC the NEMO binding domain that results in inhibition of IKKbeta kinase
CC activation and subsequent decreased phosphorylation of IkappaB. The
CC compounds are useful for treating inflammatory disorders, e.g. asthma,
CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
CC bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma,
CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
CC telangiectasia. The compounds are also useful for treating
CC pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
CC arthritis.

CC Sequence 9 AA;

Query Match 100.0%; Score 40; DB 23; Length 9;
Best Local Similarity 100.0%; Pred. No. 9.3e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDMSWL 6
DB 3 LDMSWL 8

RESULT 12
AAM48533
ID AAM48533 standard; Peptide; 9 AA.

XX AAM48533;

DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 36.

XX Antiinflammatory; antiasthmatic; cytoskeletal; antipsoriatic; nootropic;
XX antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
XX immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
XX cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
XX autoimmune disorder; multiple sclerosis; transplant rejection;
XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.

OS Synthetic.

XX WO200183554-A2.

XX 08-NOV-2001.

XX 02-MAY-2001; 2001WO-US14346.

XX 02-MAY-2000; 2000US-201261P.

PR 22-AUG-2000; 2000US-0643260.

XX (PRAE-) PRAECIS PHARM INC.

PA (UYVA) UNIV YALE.

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Page 8

PI	May MJ, Ghosh S, Findeis MA, Phillips K,	
XX		
DR	WPI; 2002-121889/16.	
PT	Novel antiinflammatory compound comprising membrane translocation	
PT	domain fused to NEMO binding sequence, useful for blocking nuclear	
PT	factor kappaB activation, and for treating asthma, lung inflammation,	
PT	psoriasis -	
PS	Claim 6; Page 61; 89pp; English.	
XX		
CC	The invention relates to an antiinflammatory compound (especially	
CC	AAH48628-AAH48645), comprising a membrane translocation domain (especially	
CC	AAH48650-AAH48627 or AAH48646-AAH48651) which comprises from 6-15	
CC	amino acid residues, fused to a NEMO binding sequence	
CC	(AAH48525-AAH48619). The antiinflammatory compounds have antiasthmatic,	
CC	cytostatic, antiproliferative, antineoplastic, antiarthritic, osteopathic,	
CC	nonbacterial, immunosuppressive, dermatological, neuroprotective, The	
CC	nonbacterial, antihypertensive, virucide and antitumor activity. The	
CC	compounds act as selective inhibitors of cytokine-mediated NF-kappa	
CC	activation by blocking interaction of I-kappa kinase beta (IKKbeta) at	
CC	the NEMO binding domain that results in inhibition of I-kappa kinase	
CC	activation and subsequent decreased phosphorylation of I-kappa. The	
CC	compounds are useful for treating inflammatory disorders, e.g. asthma,	
CC	lung inflammation or cancer, psoriasis, rheumatoid arthritis,	
CC	osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,	
CC	burstitis, autoimmune diseases such as lupus, polymyalgia, scleroderma,	
CC	granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;	
CC	Alzheimer's disease; atherosclerosis; viral infections; and ataxia	
CC	relaparotomia. The compounds are also useful for treating	
CC	pro-inflammatory responses such as allergies, urticaria, anaphylaxis,	
CC	drug or food sensitivity, eczema, dermatitis, sunburn, aging and	
CC	arthritis.	
XX		
sq	Sequence 9 AA;	
Query Match	100.0%; Score 40; DB 23; Length 9;	
Best Local Similarity	100.0%; Pred. NO. 9.3e+05;	
Matches	6; Conservative 0; Mismatches 0; Indels 0; Gaps	
QY	1 LDMSWL 6	
Dh	2 LDMSWL 7	
RESULT 13		
ABB77313		
ID	ABB77313 standard; peptide; 10 AA.	
XX		
AC	ABB77313;	
XX		
DT	14-JUN-2002 (first entry)	
DE	IKKbeta NEMO binding domain peptide SEQ ID NO 1.	
XX		
XX	IKKbeta; IKKalpha; NEMO; NEMO binding domain; NBD; NF-kappaB; NF-kB;	
KW	kinase activation; leukocyte; inflammation; E-selectin; osteoclast;	
KW	autoimmune disease; transplant rejection; osteoporosis; cancer;	
KW	Alzheimer's disease; viral; infection; asthma; anaphylaxis; psoriasis;	
KW	rheumatoid arthritis; Crohn's disease; multiple sclerosis; HIV;	
KW	cholesterol; immunosuppression; antiinflammatory; immunosuppressive;	
KW	osteopathic; cytostatic; neurotropic; neuroprotective; anti-HIV; human;	
KW	antiartherosclerotic; virucide; antiasthmatic; antiallergic;	
KW	dermatological; antibacterial; antiproliferative; antineoplastic;	
KW	antiarthritic; osteopathic; antitumor.	
XX		
OS	Homo sapiens.	
XX		
PN	MO200183547-A2.	
XX		
PD	08-NOV-2001.	
XX		
XX	02-MAY-2001; 2001WO-US40654.	
PF		

PR	02-MAY-2000;	2000US-201261P.
PT	22-AUG-2000;	2000US-0643260.
XX	(UYVA) UNIV YALE.	
PA	May MJ, Ghosh S;	
XX	WPI; 2002-179350/23.	
DR		
XX		
PT	Modulating NF-kappaB induction in a cell, useful for treating e.g.	
PT	inflammatory disorders, osteoporosis and cancer, comprises contacting a	
PT	cell with an anti-inflammatory compound comprising at least one NEMO	
PT	binding domain -	
PS	Example 4; Page -: 82pp; English.	
XX	The invention relates to modulating NF-kappaB (NF-KB) induction in a cell	
CC	comprises contacting a cell with an anti-inflammatory compound	
CC	(AB080725-AB080742) comprising at least one NEMO binding domain	
CC	(AB077313). The compound has acts through selective inhibition of	
CC	Cytokine-mediated NF-kB activation by blocking the interaction of NEMO	
CC	with IKKbeta at the NEMO binding domain. Blockage of IKKbeta-NEMO	
CC	interaction results in inhibition of IKKbeta kinase activation and	
CC	subsequent decreased phosphorylation of IkappaB. The compound may also	
CC	act (directly or indirectly) by blocking the recruitment of leukocytes	
CC	into sites of acute and chronic inflammation, by down-regulating the	
CC	expression of E-selectin on leukocytes or by blocking osteoclast	
CC	differentiation. The compound is useful in treating NF-kB mediated	
CC	conditions, where the condition is an inflammatory disorder, an	
CC	autoimmune disease, transplant rejection, osteoporosis, cancer,	
CC	Alzheimer's disease, atherosclerosis, a viral infection or ataxia	
CC	tellurictacta. The inflammatory disorder is asthma, allergies,	
CC	urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis,	
CC	rheumatoid arthritis, osteoarthritis, psoriatic arthritis, inflammatory	
CC	bowel disease, chronic obstructive pulmonary disease, vasculitis and	
CC	bursitis. The inflammatory disorder may also be dermatitis, eczema,	
CC	psoriasis, osteoarthritis, psoriatic arthritis, lupus and	
CC	spondyloarthritis. Also for Crohn's disease, ulcerative colitis,	
CC	polyarthritis, scleroderma, Wegner's granulomatosis, temporal arteritis,	
CC	cryoglobulinemia or multiple sclerosis. For chronic viral infections	
CC	caused by Epstein-Barr, cytomegalovirus or herpes simplex. Other viral	
CC	diseases include HIV and influenza. The compound may also be useful for	
CC	treating anaphylaxis, drug and food sensitivity, contact dermatitis,	
CC	sunburn or aging. The compound may be used to replace corticosteroids in	
CC	any application in which corticosteroids are used, including	
CC	immunosuppression in transplants and cancer therapy. Also for identifying	
CC	anti-inflammatory compounds and for diagnosis of an inflammatory disorder.	
CC	The compound may be administered alone or in combination with other known	
CC	anti-inflammatory agents. The present sequence is that of the NEMO	
CC	binding domain of IKKbeta.	
CC	Note: The present sequence is not given in the specification but is	
CC	encoded by the polynucleotide given at Genbank Accession No. AF067807,	
CC	nucleotides 2203-2235.	
XX		
QY	Sequence 10 AA;	
DB	Query Match 100.0%; Score 40; DB 23; Length 10;	
	Best Local Similarity 100.0%; Pred. No. 3.9;	
	Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
YY	1 LDMSWL 6	
DB	3 LDMSWL 8	
RESULT 14		
ID	AA048528 standard; Peptide; 10 AA.	
XX	AA048528;	
AC		
XX		
DT	20-MAR-2002 (first entry)	

XX Anti-inflammatory peptide SEQ ID NO 31.
DE
XX
XX Antihistaminic; anticholinergic; cytoskeletal; antiproliferative; neurotrophic;
XX antihistaminic; anticholinergic; cytoskeletal; antiproliferative; neurotrophic;
XX immunosuppressive; dermatological; neuroprotective; antithrombotic;
XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
XX cytokine; NF-kappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
XX autoimmune disorder; multiple sclerosis; transplant rejection;
XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.
OS
XX Synthetic.
XX
XX WO200183554-A2.
XX
XX
XX 08-NOV-2001.
XX
XX
XX 02-MAY-2001; 2001WO-US14346.
XX
XX
XX 02-MAY-2000; 2000US-201261P.
XX
XX 22-AUG-2000; 2000US-0643260.
XX
XX (PRAE-) PRAECIS PHARM INC.
XX (UYVA) UNIV YALE.
XX
XX May MJ, Ghosh S, Findeis MA, Phillips K;
XX
XX WPI; 2002-121889/16.
XX
XX Novel anti-inflammatory compound comprising membrane translocation
XX domain fused to NEMO binding sequence, useful for blocking nuclear
XX factor kappaB activation, and for treating asthma, lung inflammation,
XX psoriasis -
XX
XX
XX Claim 6; Page 61; 88pp; English.
XX
XX The invention relates to an anti-inflammatory compound (especially
XX AAM48628-AAM48645), comprising a membrane translocation domain
XX (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
XX amino acid residues, fused to a NEMO binding sequence
XX (AAM48525-AAM48619). The anti-inflammatory compounds have antiaesthetic,
XX cytoskeletal, antiproliferative, antithrombotic, antiallergic activity, the
XX antiproliferative, immunosuppressive, dermatological, neuroprotective,
XX neurotrophic, antithrombotic, vitruide and antiallergic activity. The
XX compounds act as selective inhibitors of cytokine-mediated NF-kappaB
XX activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
XX the NEMO binding domain that results in inhibition of IkappaB kinase
XX activation and subsequent decreased phosphorylation of IkappaB. The
XX compounds are useful for treating inflammatory disorders, e.g. asthma,
XX lung inflammation or cancer, psoriasis, rheumatoid arthritis,
XX osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
XX bursitis; autoimmune diseases such as lupus, polyarthritis, scleroderma,
XX granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
XX Alzheimer's disease; atherosclerosis; viral infections; and ataxia
XX telangiectasia. The compounds are also useful for treating
XX pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
XX drug or food sensitivity, eczema, dermatitis, sunburn, aging and
XX arthritis.
XX
XX
XX Sequence 10 AA;
XX
XX
XX Query Match 100.0%; Score 40; DB 23; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 3.9;
XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 15

AAM48531
ID AAM48531 standard; Peptide; 10 AA.
XX
XX
XX AAM48531;
XX
XX 20-MAR-2002 (first entry)
XX
XX
XX Anti-inflammatory peptide SEQ ID NO 34.
DE
XX
XX Antihistaminic; anticholinergic; cytoskeletal; antiproliferative; neurotrophic;
XX antihistaminic; anticholinergic; cytoskeletal; antiproliferative; neurotrophic;
XX immunosuppressive; dermatological; neuroprotective; antithrombotic;
XX antiallergic; membrane translocation domain; NEMO binding domain; eczema;
XX cytokine; NF-kappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
XX autoimmune disorder; multiple sclerosis; transplant rejection;
XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.
OS
XX Synthetic.
XX
XX WO200183554-A2.
XX
XX
XX 08-NOV-2001.
XX
XX
XX 02-MAY-2001; 2001WO-US14346.
XX
XX
XX 02-MAY-2000; 2000US-201261P.
XX
XX 22-AUG-2000; 2000US-0643260.
XX
XX (PRAE-) PRAECIS PHARM INC.
XX (UYVA) UNIV YALE.
XX
XX May MJ, Ghosh S, Findeis MA, Phillips K;
XX
XX WPI; 2002-121889/16.
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XX Novel anti-inflammatory compound comprising membrane translocation
XX domain fused to NEMO binding sequence, useful for blocking nuclear
XX factor kappaB activation, and for treating asthma, lung inflammation,
XX psoriasis -
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XX Claim 6; Page 61; 88pp; English.
XX
XX The invention relates to an anti-inflammatory compound (especially
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XX (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
XX amino acid residues, fused to a NEMO binding sequence
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XX antiproliferative, immunosuppressive, dermatological, neuroprotective,
XX neurotrophic, antithrombotic, vitruide and antiallergic activity. The
XX compounds act as selective inhibitors of cytokine-mediated NF-kappaB
XX activation by blocking interaction of IkappaB kinase beta (IKKbeta) at
XX the NEMO binding domain that results in inhibition of IkappaB kinase
XX activation and subsequent decreased phosphorylation of IkappaB. The
XX compounds are useful for treating inflammatory disorders, e.g. asthma,
XX lung inflammation or cancer, psoriasis, rheumatoid arthritis,
XX osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
XX bursitis; autoimmune diseases such as lupus, polyarthritis, scleroderma,
XX granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
XX Alzheimer's disease; atherosclerosis; viral infections; and ataxia
XX telangiectasia. The compounds are also useful for treating
XX pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
XX drug or food sensitivity, eczema, dermatitis, sunburn, aging and
XX arthritis.
XX
XX
XX Sequence 10 AA;
XX
XX
XX Query Match 100.0%; Score 40; DB 23; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 3.9;
XX Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Wed Feb 18 17:21:25 2004

us-09-643-260-2.rag

Page 10

Qy 1 LDMSWL 6
| | | | |
Db 3 LDMSWL 8

Search completed: February 18, 2004, 14:26:17
Job time : 22.7763 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2004, 14:12:09 ; Search time 6.5921 Seconds

(without alignments)
87.531 Million cell updates/sec

Title: US-09-643-260-3

Perfect score: 26

Sequence: 1 LDASAL 6

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 76:**
1: p1r1:**
2: p1r2:**
3: p1r3:**
4: p1r4:**

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	26	100.0	84√2	D70672	hypothetical prote
2	26	100.0	129	T31200	hypothetical prote
3	26	100.0	130	F90278	conserved hypotet
4	26	100.0	171	F87628	hypothetical prote
5	26	100.0	230	E95326	Altra transcription
6	26	100.0	259	F69311	conserved hypotet
7	26	100.0	281	C83635	hypothetical prote
8	26	100.0	334	T37024	probable DNA-bindi
9	26	100.0	383	H98287	hypothetical prote
10	26	100.0	394	H81807	conserved hypotet
11	26	100.0	394	B81062	hypothetical prote
12	26	100.0	437	A70587	hypothetical prote
13	26	100.0	483	AH3265	aspartate ammonia-
14	26	100.0	512	H81847	hypothetical prote
15	26	100.0	513	A96265	hypothetical prote
16	26	100.0	513	AH3019	sigma 54 dependent
17	26	100.0	516	E81092	hypothetical prote
18	26	100.0	550	H70772	hypothetical prote
19	26	100.0	586	T49210	hypothetical prote
20	26	100.0	638	T39196	amyloridine sensitiv
21	26	100.0	855	T41336	probable nitrogen
22	26	100.0	894	G82250	leucyl-tRNA synthet
23	26	100.0	920	T40614	surface array prot
24	26	100.0	1006	T41439	putative sulfitase
25	26	100.0	1026	UC2038	peptidyl-dipeptida
26	26	100.0	1313	1	allopheocyanin be
27	26	92.3	157	C70882	hypothetical prote
28	26	92.3	166	AC1940	purine-binding che
29	26	92.3	179	B96989	probable membrane

30	24	92.3	197	2	A64484	conserved hypotet
31	24	92.3	279	2	A83986	hypothetical prote
32	24	92.3	292	2	A95153	hypothetical prote
33	24	92.3	292	2	H98028	hypothetical prote
34	24	92.3	294	2	T26946	hypothetical prote
35	24	92.3	298	2	A41227	protein kinase (EC
36	24	92.3	304	2	T42939	phosphoprotein pho
37	24	92.3	326	2	T09995	protein kinase (EC
38	24	92.3	346	1	I78840	fructose-bisphosph
39	24	92.3	359	1	ADE02A	fructose-bisphosph
40	24	92.3	359	2	D91103	fructose-bisphosph
41	24	92.3	359	2	AC0875	fructose-bisphosph
42	24	92.3	384	2	G85948	adenosylmethionine
43	24	92.3	393	2	S69191	alanine racemase
44	24	92.3	401	2	AC2113	adenosylmethionine
45	24	92.3	405	1	XUECSD	dihydroallopaamide S

ALIGNMENTS

RESULT 1
D70672
hypothetical protein RV2975c - Mycobacterium tuberculosis (strain H37RV)
C/Species: Mycobacterium tuberculosis
C/Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_Change 22-Oct-1999
C/Accession: D70672
R/Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; G.
Comor, R.; Davies, R.; Devlin, K.; Felwell, T.; Hamilton, N.; Hol.
Rajandream, M.A.; Rogers, J.; Rutter, S.; Seeger, K.; Skellton, S.; Squares, S.
Nature 393, 537-544, 1998
A/Authors: Squares, R.; Sulston, J.E.; Taylor, K.; Whitehead, S.; Barrett, B.G.
A/Title: Deciphering the biology of Mycobacterium tuberculosis from the complete
A/Reference number: A70500; MUID:9829587; PMID:9634230
A/Accession: D70672
A/Status: preliminary; nucleic acid sequence not shown; translation not shown
A/Molecule type: DNA
A/Residues: 1-84 <COL>
A/Cross-references: GB:I283018; GB:AL123456; NID:G3261671; PIDN:CAB05437.1; PID:e
A/Experimental source: strain H37RV
C/Genetics:
A/Gene: RV2975c

Query Match 100.0%; Score 26; DB 2; Length 84;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 8 LDASAL 13

RESULT 2

T31200
hypothetical protein 633 - Sphingomonas aromaticivorans plasmid pNL1

C/Species: Sphingomonas aromaticivorans

C/Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_Change 11-Jan-2000

C/Accession: T31200

R/Romine, M.F.; Stillwell, L.C.; Wong, K.K.; Thurston, S.J.; Sisk, E.C.; Jensen,

submitted to the EMBL Data Library, July 1998

A/Description: Complete sequence of a 184 Kb catabolic plasmid from Sphingomonas

A/Accession number: Z20992

A/Accession: T31200

A/Status: preliminary; translated from GB/EMBL/DBJ

A/Molecule type: DNA

A/Residues: 1-129 <ROM>

A/Cross-references: EMBL:AF079317; NID:G3378261; PID:G3378341; PIDN:AAD03924.1

C/Genetics: Plasmid pNL1

A/Note: orf633

Query Match 100.0%; Score 26; DB 2; Length 129;
Best Local Similarity 100.0%; Pred. No. 19;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
|||||
Db 6 LDASAL 11

RESULT 3

F90278
conserved hypothetical protein [imported] - Sulfolobus solfataricus
C/Species: Sulfolobus solfataricus
C/Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 24-May-2001

C/Accession: F90278
R/Site, Q.: Singh, R.K.; Confalonieri, F.; Zivanovic, Y.; Allard, G.; Amayez, M.J.; Chan-
Ung, I.; Jeffries, A.C.; Kozers, C.J.; Medina, N.; Peng, X.; Thi-Ngoc, H.P.; Redder, H.
arrett, R.A.; Ragan, M.A.; Sensen, C.W.; Van der Oost, J.
Submitted to Genbank, April 2001
A/Description: Sulfolobus solfataricus complete genome.
A/Reference number: A99139
A/Accession: F90278

A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-130 <KUR>
A/Cross-references: GB:AE006641; NID:G13814439; PIDN:AAK41485.1; GSPDB:GN00155
C/Genetics:
A/Gene: SS01243

Query Match 100.0%; Score 26; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
|||||
Db 8 LDASAL 13

RESULT 4

F87628
hypothetical protein CC3064 [imported] - Caulobacter crescentus
C/Species: Caulobacter crescentus
C/Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 20-Apr-2001

C/Accession: F87628
R/Nieman, W.C.; Deboy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwin, M.L.; Hatf, D.H.; Kolon
n, J.; Brumaeva, W.; White, O.; Salberg, S.L.; Shapiro, L.; Venter, D.C.; Fraser, C.M.
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
A/Title: Complete Genome Sequence of Caulobacter crescentus.
A/Reference number: A87249; MUID:21173698; PMID:11259647
A/Accession: F87628

A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-171 <STO>
A/Cross-references: GB:AE005673; NID:G13424712; PIDN:AAK25026.1; GSPDB:GN00148
C/Genetics:
A/Gene: CC3064

Query Match 100.0%; Score 26; DB 2; Length 171;
Best Local Similarity 100.0%; Pred. No. 26;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
|||||
Db 118 LDASAL 123

RESULT 5

E95326
Atra transcription regulator [imported] - Sinorhizobium meliloti (strain 1021) magaplast
C/Species: Sinorhizobium meliloti
C/Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 30-Sep-2001

C/Accession: E95326
R/Barnett, M.J.; Fisher, R.F.; Jones, T.; Komp, C.; Abola, A.P.; Barloy-Hubler, F.; Bows
.; Kaiman, S.; Keating, D.H.; Palm, C.; Peck, M.C.; Surzycki, R.; Wells, D.H.; Yeh, K.C.

Proc. Natl. Acad. Sci. U.S.A. 98, 9883-9888, 2001

A/Title: Nucleotide sequence and predicted functions of the entire Sinorhizobium

A/Reference number: A95262; MUID:21396509; PMID:11481432

A/Accession: E95326

A/Status: preliminary

A/Molecule type: DNA

A/Residues: 1-230 <KUR>

A/Cross-references: GB:AE006469; PIDN:AAK65175.1; PID:G14523620; GSPDB:GN00165

A/Experimental source: strain 1021, megaplastid psymA

R/Galibert, F.; Finan, T.M.; Long, S.R.; Pulver, A.; Abola, P.; Ampe, F.; Barloy-
peta, D.; Chain, P.; Cowie, A.; Davis, R.W.; Dreano, S.; Federpiet, N.A.; Fisher

L.; Hyman, R.W.; Jones, T.

Science 293, 668-672, 2001

A/Authors: Kahn, D.; Kahn, M.L.; Kaiman, S.; Keating, D.H.; Kiss, E.; Komp, C.; L
hebaud, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.;

A/Title: The composite genome of the legume symbiont Sinorhizobium meliloti.

A/Reference number: A96039; MUID:21368234; PMID:11474104

A/Contents: annotation

C/Genetics:
A/Gene: atra

A/Genome: plasmid

Query Match 100.0%; Score 26; DB 2; Length 230;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
|||||
Db 83 LDASAL 88

RESULT 6

F69311
conserved hypothetical protein AF0494 - Archaeoglobus fulgidus
C/Species: Archaeoglobus fulgidus
C/Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 21-Jul-2000

C/Accession: F69311
R/Klenk, H.P.; Clayton, R.A.; Tomb, J.F.; White, O.; Nelson, K.E.; Ketchum, K.A.;
Glodek, A.; Zhou, L.; Overbeek, R.; Gocayne, J.D.; Weidman, J.F.; McDonald, L.
Nature 390, 364-370, 1997
A/Authors: Uteback, T.; Cotton, M.D.; Spriggs, T.; Artlich, P.; Kaine, B.P.; S.
Smith, H.O.; Moese, C.R.; Venter, J.C.

A/Title: The complete genome sequence of the hyperthermophilic, sulfate-reducing

A/Reference number: A69250; MUID:98049343; PMID:9389475

A/Accession: F69311

A/Status: preliminary; nucleic acid sequence not shown; translation not shown

A/Molecule type: DNA

A/Residues: 1-259 <KLE>

A/Cross-references: GB:AE001070; GB:AE000782; NID:G2689393; PIDN:AAK90743.1; PID

C/Superfamily: conserved hypothetical protein MTH682

Query Match 100.0%; Score 26; DB 2; Length 259;
Best Local Similarity 100.0%; Pred. No. 41;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
|||||
Db 149 LDASAL 154

RESULT 7

C83635
hypothetical protein PA0086 [imported] - Pseudomonas aeruginosa (strain PA01)
C/Species: Pseudomonas aeruginosa
C/Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2000

C/Accession: C83635

R/Stover, C.K.; Pham, X.Q.; Bwlin, A.L.; Mizoguchi, S.D.; Warren, P.; Hickey,
adman, S.; Yan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Lardi,

.; Lory, S.; Olson, M.V.

Nature 406, 959-964, 2000

A/Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunist

A/Reference number: A82950; MUID:20437337; PMID:10984043

A/Accession: C83635
 A/Status: Preliminary
 A/Molecule type: DNA
 A/Residues: 1-281 <STO>
 A/Cross-references: GB:AE004447; GB:AE004091; NID:g9945902; PIDN:AA03476.1; GSPDB:GN001
 A/Experimental source: strain PA01
 A/Genetics:

Query Match

Best Local Similarity 100.0%; Score 26; DB 2; Length 281;
 Pred. No. 45;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 |||||
 DB 79 LDASAL 84

RESULT 8

probable DNA-binding regulator - Streptomyces coelicolor

C/Species: Streptomyces coelicolor
 C/Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 03-Dec-1999
 C/Accession: T37024

R.Murphy, L.; Harris, D.; Thomson, N.R.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
 submitted to the EMBL Data Library, August 1999

A/Reference number: Z21619

A/Accession: T37024

A/Status: preliminary; translated from GB/EMBL/DDBU

A/Molecule type: DNA

A/Residues: 1-334 <MUR>

A/Cross-references: EMBL:AL109989; PIDN:CA853417.1; GSPDB:GN00070; SCQEDB:SCJ12.05C

A/Experimental source: strain A3(2)

C/Genetics:

A/Genes: SCQEDB:SCJ12.05C

Query Match
 Best Local Similarity 100.0%; Score 26; DB 2; Length 334;
 Pred. No. 54;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 |||||
 DB 139 LDASAL 144

RESULT 9

hypothetical protein AGR_L_2514 [imported] - Agrobacterium tumefaciens (strain C58, Cere
 C/Species: Agrobacterium tumefaciens
 C/Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 18-Nov-2002

C/Accession: H98287

R.Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman,

A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.

Science 294, 2323-2328, 2001

A/Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum

A/Reference number: A97359; MUID:2160851; PMID:11743194

A/Accession: H98287

A/Status: preliminary

A/Molecule type: DNA

A/Residues: 1-383 <KUR>

A/Cross-references: GB:AE007870; PIDN:AAK69826.1; PID:g15.59760; GSPDB:GN00170

C/Genetics:

A/Genes: AGR_L_2514

A/Map position: linear chromosome

Query Match
 Best Local Similarity 100.0%; Score 26; DB 2; Length 383;
 Pred. No. 63;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 |||||
 DB 270 LDASAL 275

RESULT 10

conserved hypothetical protein NMA1819 [imported] - Neisseria meningitidis (strai
 C/Species: Neisseria meningitidis
 C/Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 02-Feb-2001

C/Accession: H81807

R.Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.

; Holtroff, S.; Jorgensen, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Raja

Nature 404, 502-506, 2000

A/Title: Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z

A/Reference number: A81775; MUID:2022556; PMID:10761919

A/Accession: H81807

A/Status: preliminary

A/Molecule type: DNA

A/Residues: 1-394 <PAR>

A/Cross-references: GB:AL162757; GB:AL157959; NID:g7380371; PIDN:CA85044.1; PID:

A/Experimental source: serogroup A, strain Z2491

C/Genetics:

A/Genes: NMA1819

Query Match
 Best Local Similarity 100.0%; Score 26; DB 2; Length 394;
 Pred. No. 65;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 |||||
 DB 365 LDASAL 370

RESULT 11

conserved hypothetical protein NMB1620 [imported] - Neisseria meningitidis (strai
 C/Species: Neisseria meningitidis
 C/Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 19-Jan-2001

C/Accession: B81062

R.Rettlein, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Bis

Hickey, E.K.; Hatt, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty

ri, H.; Qin, H.; Vamathavan, J.; Gill, J.; Scarlato, V.; Maignan, V.; Pizzo, M.

Science 287, 1809-1815, 2000

A/Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli,

A/Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC

A/Reference number: A81000; MUID:2017575; PMID:10710307

A/Accession: B81062

A/Status: preliminary

A/Molecule type: DNA

A/Residues: 1-394 <TER>

A/Cross-references: GB:AE002512; GB:AE002098; NID:g7226866; PIDN:AAFA1972.1; PID:

A/Experimental source: serogroup B, strain MC58

C/Genetics:

A/Genes: NMB1620

Query Match
 Best Local Similarity 100.0%; Score 26; DB 2; Length 394;
 Pred. No. 65;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 |||||
 DB 365 LDASAL 370

RESULT 12

hypothetical protein RV2370C - Mycobacterium tuberculosis (strain H37RV)

C/Species: Mycobacterium tuberculosis

C/Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 22-Oct-1999

C/Accession: A70587

R.Cole, S.T.; Brosch, R.; Parkhill, J.; Garnier, T.; Churcher, C.; Harris, D.; Gc

Rajandream, M.A.; Davies, R.; Devlin, K.; Feltham, T.; Gentles, S.; Hamlin, N.; Holt

Nature 393, 537-544, 1998

A/Authors: Sgares, R.; Sullivan, J.E.; Taylor, K.; Whitehead, S.; Barrell, B.G.

A/Title: Deciphering the biology of Mycobacterium tuberculosis from the complete

A/Reference number: A70500; MUID:98295987; PMID:9634230
 A/Accession: A70587
 A/Status: preliminary; nucleic acid sequence not shown; translation not shown
 A/Molecule type: DNA
 A/Residues: 1-437 <COL>
 A/Cross-references: GB:Z95208; GB:AL123456; NID:93261747; PIDN:CAB08469.1; PID:e315159;
 A/Experimental source: strain H37RV
 C/Genetics:
 A/Gene: RV2370C

Query Match 100.0%; Score 26; DB 2; Length 437;
 Best Local Similarity 100.0%; Pred. No. 73;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LDASAL 6
 DB 96 LDASAL 101

RESULT 13
 AH3265
 aspartate ammonia-lyase [EC 4.3.1.1] [imported] - Brucella melitensis (strain 16M)
 C/Species: Brucella melitensis
 C/Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 15-Feb-2002
 C/Accession: AH3265
 R/DelVecchio, V.G.; Kapatal, V.; Redkar, R.J.; Patra, G.; Mufer, C.; Los, T.; Ivanova,
 .; Mazur, M.; Goldsman, E.; Selkov, E.; Bizer, P.H.; Hagius, S.; O'Callaghan, D.; Letess
 Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002
 A/Title: The genome sequence of the facultative intracellular pathogen Brucella melitensis
 A/Reference number: AD3252; PMID:11756688
 A/Accession: AH3265
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-483 <KUR>
 A/Cross-references: GB:AE008917; PIDN:AAL1291.1; PID:91798195; GSPDB:GN00190
 A/Experimental source: strain 16M
 C/Genetics:
 A/Gene: BME10109
 A/Map position: 1
 C/Superfamily: fumarate hydratase
 C/Keywords: ammonia-lyase; carbon-nitrogen lyase

Query Match 100.0%; Score 26; DB 2; Length 483;
 Best Local Similarity 100.0%; Pred. No. 81;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LDASAL 6
 DB 452 LDASAL 457

RESULT 14
 H81847
 hypothetical protein NMA1557 [imported] - Neisseria meningitidis (strain Z2491 serogroup
 C/Species: Neisseria meningitidis
 C/Date: 05-May-2000 #sequence_revision 05-May-2000 #text_change 02-Feb-2001
 C/Accession: H81847
 R/Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morel
 ; Holroyd, S.; Jorgensen, K.; Leather, S.; Moule, S.; Mungall, K.; Quail, M.A.; Rajandream,
 Nature 404, 502-506, 2000
 A/Title: Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491.
 A/Reference number: AB1775; MUID:20222556; PMID:10761919
 A/Accession: H81847
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-512 <PAR>
 A/Cross-references: GB:AL162756; GB:AL157959; NID:97380091; PIDN:CAB84784.1; PID:9738019
 A/Experimental source: serogroup A, strain Z2491
 C/Genetics:
 A/Gene: NMA1557

Query Match 100.0%; Score 26; DB 2; Length 512;
 Best Local Similarity 100.0%; Pred. No. 87;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LDASAL 6
 DB 318 LDASAL 323

RESULT 15
 A96265
 hypothetical protein AGR_L_2141 [imported] - Agrobacterium tumefaciens (strain C5
 C/Species: Agrobacterium tumefaciens
 C/Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 17-Mar-2003
 C/Accession: A96265
 R/Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; G
 A.; Liu, P.; Wollam, C.; Allinger, M.; Doughy, D.; Scott, C.; Lagpas, C.; Marke
 Science 294, 2323-2328, 2001
 A/Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacter
 A/Reference number: A97359; MUID:21608551; PMID:11743194
 A/Accession: A96265
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-513 <KUR>
 A/Cross-references: GB:AE007870; PIDN:AAK89643.1; PID:915159542; GSPDB:GN00170
 C/Genetics:
 A/Gene: AGR_L_2141
 A/Map position: linear chromosome
 C/Superfamily: response regulator of the NtrC type; response regulator homology;

Query Match 100.0%; Score 26; DB 2; Length 513;
 Best Local Similarity 100.0%; Pred. No. 87;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 LDASAL 6
 DB 346 LDASAL 351

Search completed: February 18, 2004, 14:38:35
 Job time: 8.5921 secs

Wed Feb 18 17:21:30 2004

us-09-643-260-3.rspt

Page 1

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2004, 14:09:39 ; Search time 17.3664 Seconds
(without alignments)
89.145 Million cell updates/sec

Title: US-09-643-260-3

Perfect score: 26

Sequence: 1 LDASML 6

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 segs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

SPTREMBL_23:*

- 1: sp archaea:*
- 2: sp bacteria:*
- 3: sp fungi:*
- 4: sp human:*
- 5: sp_invertebrate:*
- 6: sp_mammal:*
- 7: sp_mhc:*
- 8: sp_organelle:*
- 9: sp_phase:*
- 10: sp_plant:*
- 11: sp_rodent:*
- 12: sp_virus:*
- 13: sp_vertebrate:*
- 14: sp_unclassified:*
- 15: sp_virus:*
- 16: sp_bacteriap:*
- 17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	26	100.0	92	10	Q9A565	Q9A565 oryza sativ
2	26	100.0	92	16	P95120	P95120 mycobacteri
3	26	100.0	129	2	O85909	O85909 sphingomona
4	26	100.0	130	17	O97Y53	O97Y53 sulfolobus
5	26	100.0	130	17	O96ZNI	O96ZNI sulfolobus
6	26	100.0	171	16	Q9A3Y6	Q9A3Y6 caulobacter
7	26	100.0	174	2	Q8KIX4	Q8KIX4 pseudomonas
8	26	100.0	191	16	Q9KY23	Q9KY23 streptomyc
9	26	100.0	191	16	Q9KY22	Q9KY22 streptomyc
10	26	100.0	230	16	O8CK50	O8CK50 streptomyc
11	26	100.0	237	10	O94ZG8	O94ZG8 rhizobium m
12	26	100.0	237	10	O94I27	O94I27 oryza sativ
13	26	100.0	245	3	Q9HRT7	Q9HRT7 pneumocysti
14	26	100.0	247	2	Q9XCY6	Q9XCY6 vibrio para
15	26	100.0	259	17	O29756	O29756 archaeoglob
16	26	100.0	281	16	Q91746	Q91746 pseudomonas

17	26	100.0	304	10	Q9A5J7	Q9A5J7 oryza sativ
18	26	100.0	334	16	Q9RI53	Q9RI53 streptomyc
19	26	100.0	349	5	Q9VR43	Q9VR43 drosophi
20	26	100.0	383	16	Q8U4W2	Q8U4W2 agrobacteri
21	26	100.0	394	16	Q9UYE3	Q9UYE3 neisseria m
22	26	100.0	394	16	Q9UR41	Q9UR41 neisseria m
23	26	100.0	420	2	Q9L9M3	Q9L9M3 escherichia
24	26	100.0	437	16	O058Z8	O058Z8 mycobacteri
25	26	100.0	455	4	Q96S13	Q96S13 homo sapien
26	26	100.0	483	16	Q8YCH4	Q8YCH4 bruceella me
27	26	100.0	483	16	O8FYC6	O8FYC6 bruceella su
28	26	100.0	512	16	Q9JUD5	Q9JUD5 neisseria m
29	26	100.0	513	16	O8U9G4	O8U9G4 agrobacteri
30	26	100.0	515	16	Q9JZD8	Q9JZD8 neisseria m
31	26	100.0	580	10	Q9JZS9	Q9JZS9 arabidopsi
32	26	100.0	586	10	Q9L747	Q9L747 arabidopsi
33	26	100.0	659	16	O8NLE7	O8NLE7 cornebacte
34	26	100.0	673	10	Q9FVG4	Q9FVG4 zea mays (m
35	26	100.0	704	4	O8NA24	O8NA24 homo sapien
36	26	100.0	745	16	O8NMB3	O8NMB3 cornebacte
37	26	100.0	791	16	O8P854	O8P854 xanthomonas
38	26	100.0	813	5	Q9V9C6	Q9V9C6 drosophi
39	26	100.0	903	2	O8VTE1	O8VTE1 bacillus st
40	26	100.0	903	2	Q9KIQ5	Q9KIQ5 bacillus st
41	26	100.0	920	2	O07366	O07366 campylobact
42	26	100.0	941	10	Q9LTP9	Q9LTP9 arabidopsi
43	26	100.0	953	10	O8GZ99	O8GZ99 arabidopsi
44	26	100.0	1013	10	O8IC10	O8IC10 oryza sativ
45	26	100.0	1313	11	Q9EGM9	Q9EGM9 rattus norv

ALIGNMENTS

RESULT 1

ID Q9A565 PRELIMINARY; PRT; 92 AA.

AC Q9A565; 01-JUN-2001 (TREMBlrel. 17, Created)

DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)

DR 01-OCT-2002 (TREMBlrel. 22, Last annotation update)

DE P0028E10.27 protein (OJ1276 B06.22 protein).

GN P0028E10.27 OR OJ1276_B06.22.

GN Oryza sativa (Rice), and

OS Oryza sativa (japonica cultivar-group).

OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

OC Ehrhartoideae; Oryzeae; Oryza.

OX NCBI_TaxID=4530, 39947;

RN [1]

RP SEQUENCE FROM N.A.

RC SPECIES=O. sativa; STRAIN=cv. Nipponbare;

RA Sasaki T., Matsumoto T., Yamamoto K.;

RT "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC

RT clone: P0028E10."

RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.

RN [2]

RP SEQUENCE FROM N.A.

RC SPECIES=O. sativa (japonica cultivar-group); STRAIN=cv. Nipponbare;

RA Sasaki T., Matsumoto T., Yamamoto K.;

RT "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, BAC

RT clone: OJ1276 B06.22";

RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.

DR EMBL; AF002912; BAB39923.1; -

DR EMBL; AF003338; BAB2513.1; -

DR Gramene; Q9A565; -

SQ SEQUENCE 92 AA; 9407 MW; 6DE88E32F046CD92 CRC64;

Query Match 100.0%; Score 26; DB 10; Length 92;

Best local Similarity 100.0%; Pred. No. 64;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASML 6

Db 31 LDASAL 36

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RESULT 2
P95120 PRELIMINARY; PRT; 92 AA.
ID P95120;
AC P95120;
DT 01-MAR-1997 (TREMblrel. 03, Created)
DT 01-MAR-2002 (TREMblrel. 20, Last sequence update)
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
DE Hypothetical protein RV2975c.
GN RV2975C OR MT3052.1 OR MTCT349.12.
OS Mycobacterium tuberculosis.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1773;
RN [1];
RC SEQUENCE FROM N.A.
RA STRAIN=H37RV;
RX MEDLINE=98295967; PubMed=9634230;
RA Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D.,
RA Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekala F.,
RA Badcock K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R., Devlin K., Feltham T., Gentles S., Hamlin N., Holroyd S.,
RA Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.,
RA Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers R.,
RA Rutter S., Seeger K., Skelton S., Squares S., Squares R.,
RA Sulston J.E., Taylor K., Whitehead S., Barrett B.G.;
RT "Deciphering the biology of Mycobacterium tuberculosis from the
RT complete genome sequence."
RL Nature 393:537-544(1998).
RN [2];
RC SEQUENCE FROM N.A.
RA STRAIN=CDC 1551 / Oshkosh;
RX Fleischmann R.D., Alland D., Eisen J.A., Carpenter L., White O.,
RA Peterson J., DeBoy R., Dodson R., Gwinn M., Haft D., Hickey E.,
RA Kolonay J.F., Nelson W.C., Umayam L.A., Ermolaeva M., Salzberg S.L.,
RA Delcher A., Utterback T., Weidman J., Khouri H., Gill J., Mkluta A.,
RA Bishai W.;
RT "Whole genome comparison of Mycobacterium tuberculosis clinical and
RT laboratory strains."
RL Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; Z83018; CAB05437.1; ALT INIT.
DR EMBL; AE007126; AAK47379.1; -.
DR TIGR; MT3052.1; -.
DR Tuberculist; RV2975c; -.
DR InterPro; IPR001969; Asparticase site.
DR PROSITE; PS00141; ASP_PROTEASE; 1.
KM Hypothetical protein; Complete proteome.
SQ SEQUENCE 92 AA; 9850 MW; 50BD1AFCDPDD253 CRC64;

Query Match 100.0%; Score 26; DB 16; Length 92;
Best Local Similarity 100.0%; Pred. No. 64;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 16 LDASAL 21

RESULT 3
P95909 PRELIMINARY; PRT; 129 AA.
ID P95909;
AC P95909;
DT 01-NOV-1998 (TREMblrel. 08, Created)
DT 01-NOV-1998 (TREMblrel. 08, Last sequence update)
DT 01-OCT-2002 (TREMblrel. 22, Last annotation update)
DE Hypothetical 13.3 kDa protein precursor.
GN ORF633.
OS Spingomonas aromaticivorans.
OC Plasmid pML1.
OC Bacteria; Proteobacteria; Alphaproteobacteria; Sphingomonadales;

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OC Spingomonadaceae; Novosphingobium.
OX NCBI_TaxID=48935;
RN [1];
RC SEQUENCE FROM N.A.
RA Romine M.F., Stillwell L.C., Wong K.-K., Thurston S.J., Sisk E.C.,
RA Sensen C.W., Gaasterland T., Safer J.D., Fredrickson J.K.;
RT "Complete sequence of a 184 kb catabolic plasmid from Spingomonas
RT aromaticivorans strain F199."
RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF079317; AAD03924.1; -.
DR InterPro; IPR002716; PIN.
DR Pfam; PF01850; PIN; 1.
KM Hypothetical protein; Plasmid; Signal.
FT SIGNAL 39
SQ SEQUENCE 129 AA; 13287 MW; 9B6F200F1767A297 CRC64;

Query Match 100.0%; Score 26; DB 2; Length 129;
Best Local Similarity 100.0%; Pred. No. 93;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 6 LDASAL 11

RESULT 4
P97953 PRELIMINARY; PRT; 130 AA.
ID P97953;
AC P97953;
DT 01-OCT-2001 (TREMblrel. 18, Created)
DT 01-OCT-2001 (TREMblrel. 18, Last sequence update)
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
DE Hypothetical protein SSO1243.
GN SSO1243.
OS Sulfolobus solfataricus.
OC Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae;
OC Sulfolobus.
OX NCBI_TaxID=2287;
RN [1];
RC SEQUENCE FROM N.A.
RA STRAIN=ATCC 35092 / DSM 1617 / P2;
RX MEDLINE=21332296; PubMed=11427726;
RA She Q., Singh R.K., Confalonieri F., Zivanovic Y., Allard G.,
RA Aweyer M.J., Chan-Weiner C.C.-Y., Clausen I.G., Curtis B.A.,
RA De Moers A., Brauso G., Fletcher C., Gordon P.W.K.,
RA Heikamp-de Jong I., Jeffries A.C., Kozera C.J., Medina N., Peng X.,
RA Thi-Ngoc H.P., Redder P., Schenk M.E., Theriault C., Tolstrup N.,
RA Charlebois R.L., Doolittle W.F., Duguet M., Gaasterland T.,
RA Garrett R.A., Ragan M.A., Sensen C.W., Van der Oost J.;
RT "The complete genome of the crenarchaeon Sulfolobus solfataricus P2."
RL Proc. Natl. Acad. Sci. U.S.A. 98:7835-7840(2001).
DR EMBL; AE006739; AAK41485.1; -.
DR InterPro; IPR002716; PIN.
DR InterPro; IPR006596; PINC.
DR Pfam; PF01850; PIN; 1.
DR SMART; SMO0670; PINC; 1.
KM Hypothetical protein; Complete proteome.
SQ SEQUENCE 130 AA; 15118 MW; 15F6BA497089115 CRC64;

Query Match 100.0%; Score 26; DB 17; Length 130;
Best Local Similarity 100.0%; Pred. No. 94;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
Db 8 LDASAL 13

RESULT 5
P962N1 PRELIMINARY; PRT; 130 AA.
ID P962N1;
AC P962N1;

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DT 01-DEC-2001 (TRENBLREL. 19, Created)
 DT 01-DEC-2001 (TRENBLREL. 19, Last sequence update)
 DT 01-DEC-2001 (TRENBLREL. 19, Last annotation update)
 DE Hypothetical protein ST1801.
 GN ST1801.
 OS Sulfolobus tokodaii.
 OC Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae;
 OC Sulfolobus.
 OC NCBI_Taxid=111955;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=JCM 10545 / 7;
 RC PubMed=11572479;
 RA Kawarabayashi Y., Hino Y., Horikawa H., Jin-no K., Takahashi M.,
 Sakine M., Baba S.-I., Anka A., Kosugi H., Hosoyama A., Fukui S.,
 Nagai Y., Nishijima K., Otsuka R., Nakazawa H., Takamiya M., Kato Y.,
 Yoshizawa T., Tanaka T., Kudoh Y., Yamazaki J., Kishida N., Oguchi A.,
 Aoki K.-I., Masuda S., Yanagi M., Nishimura M., Yamagishi A.,
 RA Oshima T., Kikuchi H.,
 RT "Complete genome sequence of an aerobic thermophilic
 RT Crenarchaeon, Sulfolobus tokodaii strain7.";
 RL DNA Res. 8:123-140(2001).
 DR EMBL; AF000987; BAB6893.1;
 KM Hypothetical protein; Complete proteome.
 SQ SEQUENCE 130 AA; 14958 MW; 4CA5C0D64E991 CRC64;

Query Match 100.0%; Score 26; DB 17; Length 130;
 Best Local Similarity 100.0%; Pred. No. 94;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 7 LDASAL 12

RESULT 6
 ID 09A3Y6 PRELIMINARY; PRT; 171 AA.
 AC 09A3Y6;
 DT 01-JUN-2001 (TRENBLREL. 17, Created)
 DT 01-JUN-2001 (TRENBLREL. 17, Last sequence update)
 DT 01-MAR-2002 (TRENBLREL. 20, Last annotation update)
 DE Hypothetical protein CC3064.
 GN CC3064.
 OS Caulobacter crescentus.
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacteriales;
 OC Caulobacteraceae; Caulobacter.
 OC NCBI_Taxid=155892;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ATCC 19089 / CB15;
 RX MEDLINE=21173698; PubMed=11259647;
 RA Niernan W.C., Feldlyum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,
 Eisen J., Heidelberg J.F., Alley M.R.K., Ohra N., Maddock J.R.,
 RA Potocka I., Nelson M.C., Newton A., Stephens C., Phade N.D., Ely B.,
 RA Deboy R.T., Dodson R.J., Durkin A.S., Gwin M.L., Hatt D.H.,
 RA Klonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K.,
 RA Ullrichack T., Tran K., Wolf A., Vamathevan J., Ermolaeva M., White O.,
 RA Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.;
 RT "Complete genome sequence of Caulobacter crescentus.";
 RT Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).
 RL EMBL; AB005969; AK25026.1; -.
 DR HSSP; P32173; IESK.
 DR TIGR; CC3064; -.
 KM Hypothetical protein; Complete proteome.
 SQ SEQUENCE 171 AA; 17046 MW; 7252F45EC2E1C9AC CRC64;

Query Match 100.0%; Score 26; DB 16; Length 171;
 Best Local Similarity 100.0%; Pred. No. 13e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6

Db 118 LDASAL 123

RESULT 7
 ID 08KLX4 PRELIMINARY; PRT; 174 AA.
 AC 08KLX4;
 DT 01-OCT-2002 (TRENBLREL. 22, Created)
 DT 01-OCT-2002 (TRENBLREL. 22, Last sequence update)
 DT 01-MAR-2003 (TRENBLREL. 23, Last annotation update)
 DE RnfB protein.
 GN RnfB.
 OS Pseudomonas stutzeri (Pseudomonas perfectomarina).
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Pseudomonadales;
 OC Pseudomonadaceae; Pseudomonas.
 OC NCBI_Taxid=316;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=A15;
 RA Desnoves N., Lin M., Guo X., Ma L., Elmerich C.;
 RT "Organisation of nit genes in Pseudomonas stutzeri A15, a rice
 RT endophyte.";
 RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AJ297529; CAD4487.1; -.
 DR InterPro; IPR01450; 4Fe4S_ferredoxin.
 DR Pfam; PF04060; FeS; 1.
 DR Pfam; PF04060; FeS; 1.
 DR PROSITE; PS00198; 4Fe4S_FERRDOXIN; 2.
 KM 4Fe-4S; Iron; Iron-sulfur.
 SQ SEQUENCE 174 AA; 17648 MW; F7B95DC793FBD9D6 CRC64;

Query Match 100.0%; Score 26; DB 2; Length 174;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 91 LDASAL 96

RESULT 8
 ID 09KX23 PRELIMINARY; PRT; 191 AA.
 AC 09KX23;
 DT 01-OCT-2000 (TRENBLREL. 15, Created)
 DT 01-OCT-2000 (TRENBLREL. 15, Last sequence update)
 DT 01-MAR-2003 (TRENBLREL. 23, Last annotation update)
 DE Hypothetical protein SCO2357.
 GN SCO2357 OR SCO2357.
 OS Streptomyces coelicolor.
 OC Bacteria; Actinobacteria; Actinobacteriales; Actinomycetales;
 OC Streptomyces; Streptomycetaceae; Streptomyces.
 OC NCBI_Taxid=1902;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=A3(2);
 RA Brown S.P., Harris D.;
 RA Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
 RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=A3(2);
 RA Bentley S.D., Parkhill J., Battey B.G., Rajandream M.A.;
 RL Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=A3(2);
 RX MEDLINE=97000351; PubMed=8843436;
 RA Redenbach M., Kiese H.M., Denapate D., Eichner A., Cullum J.,
 RA Kinashi H., Hopwood D.A.;
 RT "A set of ordered cosmids and a detailed genetic and physical map for
 RT the 8 Mb Streptomyces coelicolor A3(2) chromosome.";
 RL Mol. Microbiol. 21:77-96(1996).
 RN [4]

RP SEQUENCE FROM N.A.
 RC STRAIN=A3(2) / M145;
 RX MEDLINE=21996410; PubMed=12000953;
 RA Bentley S.D., Chater K.F., Cerdano-Tarraga A.-M., Challis G.L.,
 RA Thomson N.R., James K.D., Harris D.E., Quail M.A., Kleser H.,
 RA Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
 RA Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
 RA Huang C.-H., Kleser T., Larke L., Murphy L., Oliver K., O'Neill S.,
 RA Rabinovitch E., Rajandream M.A., Rutherford K., Rutter S., Taylor K.,
 RA Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
 RA Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
 RA Hopwood D.A.;
 RT "Complete genome sequence of the model actinomycete Streptomyces
 coelicolor A3(2).";
 RL Nature 417:141-147(2002).
 DR EMBL; AL939112; CAB92843.1; -.
 DR InterPro; IPR003325; TcrD; 1.
 DR Pfam; PF02342; TcrD; 1.
 KM Hypothetical protein; Complete proteome.
 SQ SEQUENCE 191 AA; 20414 MW; C280293C548F3988 CRC64;

Query Match 100.0%; Score 26; DB 16; Length 191;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 41 LDASAL 46

RESULT 9
 ID Q9KX22 PRELIMINARY; PRT; 191 AA.
 AC Q9KX22;
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Hypothetical protein SC02368.
 GN SC02368 OR SCC8A.26C.
 OS Streptomyces coelicolor.
 OC Bacteria; Actinobacteria; Actinomycetales;
 OC Streptomycinae; Streptomycetaceae; Streptomyces.
 CX NCBI_Taxid=1902;
 RA Hopwood D.A.;
 RT "Complete genome sequence of the model actinomycete Streptomyces
 coelicolor A3(2).";
 RL Nature 417:141-147(2002).
 DR EMBL; AL939106; CAD55270.1; -.
 KM Complete proteome.
 SQ SEQUENCE 191 AA; 20180 MW; C5998EEF8D009B5A CRC64;

Query Match 100.0%; Score 26; DB 16; Length 191;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 41 LDASAL 46

RESULT 10
 ID Q8CK50 PRELIMINARY; PRT; 191 AA.
 AC Q8CK50;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Tellurium resistance protein.
 GN SC00641 OR SCP56.25 OR SCP91.01.
 OS Streptomyces coelicolor.
 OC Bacteria; Actinobacteria; Actinomycetales;
 OC Streptomycinae; Streptomycetaceae; Streptomyces.
 CX NCBI_Taxid=1902;
 RA Hopwood D.A.;
 RT "Complete genome sequence of the model actinomycete Streptomyces
 coelicolor A3(2).";
 RL Nature 417:141-147(2002).
 DR EMBL; AL939106; CAD55270.1; -.
 KM Complete proteome.
 SQ SEQUENCE 191 AA; 20180 MW; C5998EEF8D009B5A CRC64;

Query Match 100.0%; Score 26; DB 16; Length 191;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 41 LDASAL 46

RESULT 11
 ID Q92ZG8 PRELIMINARY; PRT; 230 AA.
 AC Q92ZG8;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE ActA transcriptional regulator.
 GN ATYA OR RA0517 OR SWA0935.
 OS Rhizobium meliloti (Sinorhizobium meliloti).
 CX Plasmid pSymA (megaplasmid 1).

RA Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
 RA Hopwood D.A.;
 RT "Complete genome sequence of the model actinomycete Streptomyces
 coelicolor A3(2).";
 RL Nature 417:141-147(2002).
 DR EMBL; AL939112; CAB92844.1; -.
 DR InterPro; IPR003325; TcrD.
 DR Pfam; PF02342; TcrD; 1.
 KM Hypothetical protein; Complete proteome.
 SQ SEQUENCE 191 AA; 20387 MW; 39E9C1EC8C47AA7E CRC64;

Query Match 100.0%; Score 26; DB 16; Length 191;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 41 LDASAL 46

RESULT 10
 ID Q8CK50 PRELIMINARY; PRT; 191 AA.
 AC Q8CK50;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Tellurium resistance protein.
 GN SC00641 OR SCP56.25 OR SCP91.01.
 OS Streptomyces coelicolor.
 OC Bacteria; Actinobacteria; Actinomycetales;
 OC Streptomycinae; Streptomycetaceae; Streptomyces.
 CX NCBI_Taxid=1902;
 RA Hopwood D.A.;
 RT "Complete genome sequence of the model actinomycete Streptomyces
 coelicolor A3(2).";
 RL Nature 417:141-147(2002).
 DR EMBL; AL939106; CAD55270.1; -.
 KM Complete proteome.
 SQ SEQUENCE 191 AA; 20180 MW; C5998EEF8D009B5A CRC64;

Query Match 100.0%; Score 26; DB 16; Length 191;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 41 LDASAL 46

RESULT 11
 ID Q92ZG8 PRELIMINARY; PRT; 230 AA.
 AC Q92ZG8;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE ActA transcriptional regulator.
 GN ATYA OR RA0517 OR SWA0935.
 OS Rhizobium meliloti (Sinorhizobium meliloti).
 CX Plasmid pSymA (megaplasmid 1).

OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
 AC Rhizobiaceae; Sinorhizobium.
 OC NCBI_TaxID=382;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=1021;
 RX MEDLINE=21396509; PubMed=11481432;
 RA Barnett M.J., Fisher R.F., Jones T., Komp C., Abola A.P.,
 RA Barloy-Hubler F., Bowser L., Capela D., Galibert F., Gouzy J.,
 RA Guriai M., Hong A., Hutzar L., Hyman R.W., Kahn D., Kahn M.L.,
 RA Kalman S., Keating D.H., Palm C., Peck M.C., Surzycki R., Wells D.H.,
 RA Yeh K.-C., Davis R.W., Federspiel N.A., Long S.R.;
 RT "Nucleotide sequence and predicted functions of the entire
 RT Sinorhizobium meliloti PSYMA megaplasmid."
 RL Proc. Natl. Acad. Sci. U.S.A. 98:9883-9888(2001).
 DR EMBL; AE007243; AAK5175.1; -;
 DR InterPro; IPR000524; HTH_GNTR.
 DR Pfam; PF00392; gntR; 1.
 DR SMART; SM00345; HTH_GNTR; 1.
 DR PROSITE; PS00043; HTH_GNTR_FAMILY; 1.
 KW Plasmid; Complete proteome.
 SQ SEQUENCE 230 AA; 25843 MW; 82DECA87E91B94E CRC64;

Query Match 100.0%; Score 26; DB 16; Length 230;
 Best Local Similarity 100.0%; Pred. No. 1.7e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 83 LDASAL 88

RESULT 12
 Q941Z7 PRELIMINARY; PRT; 237 AA.
 ID Q941Z7;
 AC Q941Z7;
 DT 01-DEC-2001 (TRENBLrel. 19, Created)
 DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)
 DE OSJBA0038017.13 protein.
 DE Oryza sativa (Rice).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
 OC Ehrhartoideae; Oryzoideae; Oryza.
 OC NCBI_TaxID=4530;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=cv. Nipponbare;
 RA Sasaki T., Matsumoto T., Yamamoto K.;
 RT "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, BAC
 RT clone:OSJBA0038017.1";
 RL Submitted (JAN-2001) to the EMBL/Genbank/DBJ databases.
 CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL; AF003104; BAB55721.1; -;
 DR Gramene; Q941Z7; -;
 DR InterPro; IPR001841; Znf_ring.
 DR Pfam; PF00097; zf-CHC4; 1.
 DR SMART; SMC0184; RING; 1.
 DR PROSITE; PSS0089; ZF_RING_2; 1.
 KW Metal-binding; Zinc; Zinc-finger.
 SQ SEQUENCE 237 AA; 23871 MW; EASFO14F9B625DC CRC64;

Query Match 100.0%; Score 26; DB 10; Length 237;
 Best Local Similarity 100.0%; Pred. No. 1.8e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 91 LDASAL 96

RESULT 13
 Q9HFU7

ID Q9HFU7 PRELIMINARY; PRT; 245 AA.
 AC Q9HFU7;
 DT 01-MAR-2001 (TRENBLrel. 16, Created)
 DT 01-MAR-2001 (TRENBLrel. 16, Last sequence update)
 DT 01-MAR-2001 (TRENBLrel. 16, Last annotation update)
 DE Ornithine decarboxylase antizyme.
 GN ANTIZYME.
 OS Pneumocystis carinii.
 OC Eukaryota; Fungi; Ascomycota; Pneumocystidomycetes; Pneumocystidaceae;
 OC Pneumocystis.
 OC NCBI_TaxID=4754;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Ivanov I.P., Gesteland R.F., Atkins J.F.;
 RT "Antizyme expression: a subversion of triplet decoding, which is
 RT remarkably conserved by evolution, is a sensor for an autoregulatory
 RT circuit";
 RL Nucleic Acids Res. 28:0-0(2000).
 DR EMBL; AF21574; AAG16234.1; -;
 SQ SEQUENCE 245 AA; 27677 MW; 2ED98BA3CD5FEBD CRC64;

Query Match 100.0%; Score 26; DB 3; Length 245;
 Best Local Similarity 100.0%; Pred. No. 1.9e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 93 LDASAL 98

RESULT 14
 Q9XCX6 PRELIMINARY; PRT; 247 AA.
 ID Q9XCX6;
 AC Q9XCX6;
 DT 01-NOV-1999 (TRENBLrel. 12, Created)
 DT 01-NOV-1999 (TRENBLrel. 12, Last sequence update)
 DT 01-MAR-2003 (TRENBLrel. 23, Last annotation update)
 DE TonB-like protein.
 GN TONB1.
 OS Vibrio parahaemolyticus.
 OC Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
 OC Vibrionaceae; Vibrio.
 OC NCBI_TaxID=670;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=474801;
 RX MEDLINE=99287846; PubMed=10348876;
 RA O'Malley S.W., Mouton S.L., Occhino D.A., Deanda M.T., Rashidi J.R.,
 RA Fuson K.L., Rashidi C.E., Mora M.Y., Payne S.W., Henderson D.P.;
 RT "Comparison of the heme iron utilization systems of pathogenic
 RT vibrios";
 RL J. Bacteriol. 181:3594-3598(1999).
 DR EMBL; AF119047; AAD39909.1; -;
 DR InterPro; IPR003538; TonB.
 DR InterPro; IPR006260; TonB_C.
 DR PRINTS; PRO1374; TONBPROTEIN.
 DR TIGRFAWS; TIGR01352; tonB_cTerm; 1.
 SQ SEQUENCE 247 AA; 27121 MW; D9497117BA4D400E CRC64;

Query Match 100.0%; Score 26; DB 2; Length 247;
 Best Local Similarity 100.0%; Pred. No. 1.9e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 210 LDASAL 215

RESULT 15
 Q297S6 PRELIMINARY; PRT; 259 AA.
 ID Q297S6;
 AC Q297S6;
 DT 01-JAN-1998 (TRENBLrel. 05, Created)

DT 01-JAN-1998 (TrEMBLrel. 05, last sequence update)
 DT 01-JUN-2002 (TrEMBLrel. 21, last annotation update)
 DE Hypothetical protein AF0494.
 GN AF0494.
 OS Archaeoglobus fulgidus.
 OC Archaea; Euryarchaeota; Archaeoglobi; Archaeoglobales;
 OC Archaeoglobaceae; Archaeoglobus.
 OX NCBI_TaxID=2234;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=VC-16 / DSM 4304 / ATCC 49558;
 RX MEDLINE=98049343; PubMed=9389475;
 RA Klenk H.-P., Clayton R.A., Tomb J.-F., White O., Nelson K.E.,
 RA Ketchum K.A., Dodson R.J., Gwinn M., Hickey E.K., Peterson J.D.,
 RA Richardson D.L., Kierlavage A.R., Graham D.E., Kyriades N.C.,
 RA Fleischmann R.D., Quackenbush J., Lee N.H., Sutton G.G., Gill S.,
 RA Kirkness E.F., Dougherty B.A., McKenney K., Adams M.D., Loftus B.,
 RA Peterson S., Reich C.I., McNeil L.K., Badger J.H., Glodek A., Zhou L.,
 RA Overbeek R., Gocayne J.D., Weidman J.F., McDonald L., Utterback T.,
 RA Cotton M.D., Spriggs T., Artlich P., Kaine B.P., Sykes S.M.,
 RA Sadov P.W., Andrade K.P., Bowman C., Fujii C., Garland S.A.,
 RA Mason T.W., Olsen G.J., Fraser C.M., Smith H.O., Woese C.R.,
 RA Venter J.C.;
 RT "The complete genome sequence of the hyperthermophilic, sulphate-
 RT reducing archaeon Archaeoglobus fulgidus.";
 RL Nature 390:364-370 (1997).
 DR EMBL; AB001070; AAB90743.1; -.
 DR TIGR; AF0494; -.
 DR InterPro; IPR001247; 3_ExoRNase.
 DR Pfam; PF01138; RNase_PH; 1.
 DR Pfam; PF03725; RNase_PH; 1.
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 259 AA; 28646 MW; E8289D46F9DDCB3 CRC64;

Query Match 100.0%; Score 26; DB 17; Length 259;
 Best Local Similarity 100.0%; Pred. NO. 2e+02;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 LDASAL 6
 Db 149 LDASAL 154

Search completed: February 18, 2004, 14:35:37
 Job time : 20.3684 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2004, 13:37:19 / Search time 22.7763 Seconds
(without alignments)
41.814 Million cell updates/sec

Title: US-09-643-260-3
Perfect score: 26
Sequence: 1 LDASAL 6

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 1107863 seqs, 158726573 residues
Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: A_Geneseq_10Jun03.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	26	100.0	6	23	ABB08726
2	26	100.0	6	23	AAW48508
3	26	100.0	6	23	ABR08419
4	26	100.0	28	23	ABB08741
5	26	100.0	28	23	AAW48524
6	26	100.0	28	24	ABO08435
7	26	100.0	84	20	AAW04950
8	26	100.0	92	20	AAW04947
9	26	100.0	102	20	AAW04951

10	26	100.0	102	21	AAW35536	Arabidopsis thaliana
11	26	100.0	138	22	AAO01907	Human polyprotein
12	26	100.0	143	21	AAW35535	Arabidopsis thaliana
13	26	100.0	160	21	AAW35534	Arabidopsis thaliana
14	26	100.0	240	21	AAW35533	C. glutamicum prote
15	26	100.0	271	21	AAW51025	Arabidopsis thaliana
16	26	100.0	284	21	AAW51024	Arabidopsis thaliana
17	26	100.0	349	22	ABW70854	Drosophila melanog
18	26	100.0	393	24	ABW77254	N. gonorrhoeae am
19	26	100.0	462	21	AAW75181	Neisseria meningit
20	26	100.0	516	21	AAW75180	Neisseria meningit
21	26	100.0	516	21	AAW75182	Neisseria meningit
22	26	100.0	516	21	AAW75183	N. gonorrhoeae am
23	26	100.0	520	24	ABW78709	Propionibacterium
24	26	100.0	528	22	AAW41302	Arabidopsis thaliana
25	26	100.0	564	21	AAW41649	Mycobacterium spec
26	26	100.0	572	20	AAW04954	Arabidopsis thaliana
27	26	100.0	577	21	AAW41648	C. glutamicum meta
28	26	100.0	600	22	AAW71915	Corynebacterium gl
29	26	100.0	600	22	AAW73747	Corynebacterium gl
30	26	100.0	600	22	AAW73991	Corynebacterium gl
31	26	100.0	600	22	AAW80012	Corynebacterium gl
32	26	100.0	638	24	AAO16363	Human epithelial c
33	26	100.0	659	22	AAW33061	C. glutamicum prote
34	26	100.0	669	22	AAE10335	Human transporter
35	26	100.0	745	22	AAW71914	C. glutamicum meta
36	26	100.0	745	22	AAW91007	C. glutamicum prote
37	26	100.0	745	22	AAW79746	Corynebacterium gl
38	26	100.0	745	22	AAW79990	Corynebacterium gl
39	26	100.0	745	22	AAW80011	Corynebacterium gl
40	26	100.0	745	23	AAW51073	Corynebacterium gl
41	26	100.0	813	22	AAW59333	Drosophila melanog
42	26	100.0	941	23	AAW93761	Heptadically activ
43	26	100.0	967	22	AAW93951	Propionibacterium
44	26	100.0	1700	22	AAW93873	S. cinamomensis M
45	24	92.3	14	21	AAW98392	Alpha D peptide de

ALIGNMENTS

RESULT 1	ABB08726	standard; peptide; 6 AA.
ID	ABB08726	standard; peptide; 6 AA.
XX	ABB08726	
AC	ABB08726	
DT	14-UTN-2002	(first entry)
XX	14-UTN-2002	(first entry)
XX	Mutated IKKbeta NEMO binding domain peptide SEQ ID NO 3.	
XX	IKKbeta; IKKalpha; NEMO; NEMO binding domain; NBD; NF-kappaB; NF-kB;	
KW	kinase activation; leukocyte; inflammation; E-selectin; osteoclast;	
KW	autoimmune disease; transplant rejection; osteoporosis; cancer;	
KW	Alzheimer's disease; viral; infection; asthma; anaphylaxis; psoriasis;	
KW	rheumatoid arthritis; Crohn's disease; multiple sclerosis; HIV;	
KW	corticosteroid; immunosuppression; antiinflammatory; immunosuppressive;	
KW	osteopathic; cytostatic; neuroprotective; anti-HIV; human;	
KW	antiarteriosclerotic; virucide; antisthmatic; antiallergic;	
KW	dermatological; antibacterial; antiparasitic; antirheumatic;	
KW	antiarthritic; osteopathic; antitumor; mutant; mutein.	
XX		
OS	Homo sapiens.	
OS	Synthetic.	
FM	key	Location/Qualifiers
FT	Misc-difference 3	/note= "Wildtype Trp substituted by Ala"
FT	Misc-difference 5	/note= "Wildtype Trp substituted by Ala"
XX		
XX	WO200183547-A2.	

PD 08-NOV-2001.
 XX
 XX 02-MAY-2001; 2001WO-US40654.
 PF
 XX 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 XX
 XX (UYVA) UNITV YALE.
 PA
 XX May MJ, Ghosh S;
 PI
 XX WPI; 2002-179350/23.
 DR
 XX
 XX
 PT Modulating NF-kappaB induction in a cell, useful for treating e.g.
 PT inflammatory disorders, osteoporosis and cancer, comprises contacting a
 PT cell with an anti-inflammatory compound comprising at least one NEMO
 PT binding domain -
 XX
 XX
 XX Claim 23; Page 44; 82pp; English.
 PS
 XX
 XX The invention relates to modulating NF-kappaB (NF-kB) induction in a cell
 CC comprises contacting a cell with an anti-inflammatory compound
 CC (AB808725-AB808742) comprising at least one NEMO binding domain
 CC (AB8177313). The compound has acts through selective inhibition of
 CC cytokine-mediated NF-kB activation by blocking the interaction of NEMO
 CC with IKKbeta at the NEMO binding domain. Blockage of IKKbeta-NEMO
 CC interaction results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkbppaB. The compound may also
 CC act (directly or indirectly) by blocking the recruitment of leukocytes
 CC into sites of acute and chronic inflammation, by down-regulating the
 CC expression of E-selectin on leukocytes or by blocking osteoclast
 CC differentiation. The compound is useful in treating NF-kB mediated
 CC conditions, where the condition is an inflammatory disorder, an
 CC autoimmune disease, transplant rejection, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, a viral infection or ataxia
 CC telangiectasia. The inflammatory disorder is asthma, allergies,
 CC urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis,
 CC rheumatoid arthritis, osteoarthritis, psoriatic arthritis, inflammatory
 CC bowel disease, chronic obstructive pulmonary disease, vasculitis and
 CC bursitis. The inflammatory disorder may also be dermatitis, eczema,
 CC psoriasis, osteoarthritis, psoriatic arthritis, lupus and
 CC spondylarthritis. Also for Crohn's disease, ulcerative colitis,
 CC polyarthritis, scleroderma, Wegner's granulomatosis, temporal arteritis,
 CC cryoglobulinemia or multiple sclerosis. For chronic viral infections
 CC caused by Epstein-Barr, cytomegalovirus or herpes simplex. Other viral
 CC diseases include HIV and influenza. The compound may also be useful for
 CC treating anaphylaxis, drug and food sensitivity, contact dermatitis, in
 CC sunburn or aging. The compound may be used to replace corticosteroids in
 CC any application in which corticosteroids are used, including
 CC immunosuppression in transplants and cancer therapy. Also for identifying
 CC anti-inflammatory compounds and for diagnosis of an inflammatory disorder.
 CC The compound may be administered alone or in combination with other known
 CC anti-inflammatory agents. The present sequence is that of a mutated NEMO
 CC binding domain of IKKbeta.
 CC
 XX
 SQ Sequence 6 AA;
 QY
 Db 1 LDASAL 6
 1 LDASAL 6
 Query Match 100.0%; Score 26; DB 23; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

XX NBD mutant peptide SEQ ID NO 3.
 DE
 XX
 XX Antinflammatory; antiaesthetic; cytoskeletal; antiproliferative; neurotropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; viruslike;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkbppaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 XX Synthetic.
 OS
 XX WO200183554-A2.
 PN
 XX 08-NOV-2001.
 PD
 XX
 XX 02-MAY-2001; 2001WO-US14346.
 PF
 XX 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 XX
 XX (PRAE-) PRAECTIS PHARM INC.
 PA (UYVA) UNITV YALE.
 PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX WPI; 2002-121889/16.
 DR
 XX
 XX Novel antiinflammatory compound comprising membrane translocation
 PT domain fused to NEMO binding sequence, useful for blocking nuclear
 PT factor kappaB activation, and for treating asthma, lung inflammation,
 PT psoriasis -
 XX
 XX Example 6; Page 47; 88pp; English.
 PS
 XX The invention relates to an antiinflammatory compound (especially
 CC (AAM48628-AAM48645), comprising a membrane translocation domain
 CC (AAM48628-AAM48627 or AAM48646-AAM48651) which comprises from 6-15
 CC amino acid residues, fused to a NEMO binding sequence
 CC (AAM48525-AAM48619). The antiinflammatory compounds have antiaesthetic,
 CC cytoskeletal, antipsoriatic, antirheumatic, antiarthritic, osteopathic,
 CC antibacterial, immunosuppressive, dermatological, neuroprotective,
 CC neurotropic, antiatherosclerotic, viruslike and antiallergic activity. The
 CC compounds act as selective inhibitors of cytokine-mediated NFkappaB
 CC activation by blocking interaction of IkbppaB kinase beta (IKKbeta) at
 CC the NEMO binding domain that results in inhibition of IkbppaB kinase
 CC activation and subsequent decreased phosphorylation of IkbppaB. The
 CC compounds are useful for treating inflammatory disorders, e.g. asthma,
 CC lung inflammation or cancer, psoriasis, rheumatoid arthritis,
 CC osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
 CC bursitis; autoimmune diseases such as lupus, polyarthritis, scleroderma,
 CC granulomatosis, multiple sclerosis; transplant rejection; osteoporosis;
 CC Alzheimer's disease; atherosclerosis; viral infections; and ataxia
 CC telangiectasia. The compounds are also useful for treating
 CC drug or food sensitivity, eczema, dermatitis, sunburn, aging and
 CC arthritis.
 CC
 XX
 SQ Sequence 6 AA;
 QY
 Db 1 LDASAL 6
 1 LDASAL 6
 Query Match 100.0%; Score 26; DB 23; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 3

ABU08419
 ID ABU08419 standard; peptide: 6 AA.
 AC ABU08419;
 XX
 DT 12-JUN-2003 (first entry)
 DE
 XX Human NEMO binding site (NBD) mutant peptide #2.
 KW Human; antiinflammatory compound; NEMO binding domain; NBD; IKKbeta;
 KW IkappaB kinase-beta; IkappaB kinase-alpha; IKKalpha; NF-kappaB;
 KW nuclear factor-kappaB induction; inflammatory disorder;
 KW autoimmune disease; osteoporosis; cancer; Alzheimer's disease;
 KW atherosclerosis; viral infection; Ataxia telangiectasia;
 KW transplantation detection; immunosuppressive; osteopathic;
 KW cytosolic; neutrotropic; neuroprotective; antiatherosclerotic; virucide;
 KW vasotropic; antineumatic; antiarthritic; mutant; mutain.
 KW
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN US2002156000-A1.
 PD 24-OCT-2002.
 PF 02-MAY-2001; 2001US-0847940.
 PR 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 XX
 PA (MAYM/) MAY M J.
 PA (GHOSH/) GHOSH S.
 PI May MJ, Ghosh S;
 DR WPI; 2003-209142/20.
 XX
 PT Novel antiinflammatory peptide compounds comprising NEMO binding
 PT domain, useful for modulating NF-kappaB induction in a cell and for
 PT treating NF-kappaB-mediated inflammation disorders e.g., asthma,
 PT psoriasis, vasculitis -
 XX
 PS Claim 22; Page 17; 47pp; English.
 CC The present invention relates to antiinflammatory compounds comprising
 CC NEMO binding domain (NBD) peptides. The NEMO binding domains are
 CC found on IkappaB kinase-beta (IKKbeta) and IkappaB kinase-alpha
 CC (IKKalpha) proteins. The antiinflammatory compounds of the invention
 CC are useful for modulating nuclear factor-kappaB (NF-kappaB) induction
 CC in a cell, where the compounds are capable of blocking the interaction
 CC between one or more IKKs such as IKKalpha or IKKbeta and NEMO. The
 CC antiinflammatory compound further comprises at least one membrane
 CC translocation domain. The compounds are useful for treating
 CC inflammatory disorders, autoimmune diseases, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, viral infections, Ataxia
 CC telangiectasia, and for transplantation detection. The compounds of
 CC the invention block NF-kappaB induction by IKK but do not inhibit
 CC the basal activity of NF-kappaB. ABU08418-ABU08432 represent human
 CC NBD mutant peptides.
 CC
 XX
 SQ Sequence 6 AA;
 Query Match 100.0%; Score 26; DB 24; Length 6;
 Best Local Similarity 100.0%; Pred. No. 9.3e+05;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 4
 ABB08741

ABB08741 standard; peptide: 28 AA.
 ID ABB08741;
 AC ABB08741;
 XX
 DT 14-JUN-2002 (first entry)
 DE
 XX Mutated IKKbeta NEMO binding domain peptide SEQ ID NO 19.
 KW IKKbeta; IKKalpha; NEMO; NEMO binding domain; NBD; NF-kappaB; NF-kB;
 KW kinase activation; leukocyte; inflammation; E-selectin; osteoclast;
 KW autoimmune disease; transplant rejection; osteoporosis; cancer;
 KW Alzheimer's disease; viral infection; asthma; anaphylaxis; psoriasis;
 KW rheumatoid arthritis; Crohn's disease; multiple sclerosis; HIV;
 KW corticosteroid; immunosuppression; antiinflammatory; immunosuppressive;
 KW osteopathic; cytosolic; neutrotropic; neuroprotective; anti-HIV; human;
 KW antiarteriosclerotic; virucide; antiposrotatic; antiallergic;
 KW dermatological; antibacterial; antipsoriatic; antineumatic;
 KW antiarthritic; osteopathic; antileicer; mutant; mutain.
 KW
 OS Homo sapiens.
 OS Synthetic.
 XX
 PN WO200183547-A2.
 PD 08-NOV-2001.
 PF 02-MAY-2001; 2001WO-US40654.
 PR 02-MAY-2000; 2000US-201261P.
 PR 22-AUG-2000; 2000US-0643260.
 XX
 PA (UYVA) UNIV YALE.
 PA May MJ, Ghosh S;
 DR WPI; 2002-179350/23.
 XX
 PT Modulating NF-kappaB induction in a cell, useful for treating e.g.
 PT inflammatory disorders, osteoporosis and cancer, comprises contacting a
 PT cell with an anti-inflammatory compound comprising at least one NEMO
 PT binding domain -
 XX
 PS Claim 23; Fig 5; 82pp; English.
 CC The invention relates to modulating NF-kappaB (NF-kB) induction in a cell
 CC comprises contacting a cell with an anti-inflammatory compound
 CC (ABB08725-ABB08742) comprising at least one NEMO binding domain
 CC (ABB77313). The compound has acts through selective inhibition of
 CC cytokine-mediated NF-kB activation by blocking the interaction of NEMO
 CC with IKKbeta at the NEMO binding domain. Blockage of IKKbeta-NEMO
 CC interaction results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compound may also
 CC act (directly or indirectly) by blocking the recruitment of leukocytes
 CC into sites of acute and chronic inflammation, by down-regulating the
 CC expression of E-selectin on leukocytes or by blocking osteoclast
 CC differentiation. The compound is useful in treating NF-kB mediated
 CC conditions, where the condition is an inflammatory disorder, an
 CC autoimmune disease, transplant rejection, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, a viral infection or ataxia
 CC telangiectasia. The inflammatory disorder is asthma, allergies,
 CC urticaria, anaphylaxis, cutaneous inflammation, sepsis, psoriasis,
 CC rheumatoid arthritis, osteoarthritis, psoriatic arthritis, inflammation
 CC bowel disease, chronic obstructive pulmonary disease, vasculitis and
 CC bursitis. The inflammatory disorder may also be dermatitis, eczema,
 CC psoriasis, osteoarthritis, psoriatic arthritis, lupus and
 CC spondylarthritis. Also for Crohn's disease, ulcerative colitis,
 CC polymyalgia, scleroderma, Wegner's granulomatosis, temporal arteritis,

CC	Cytostatic; antiproliferative; anticancerous; anti-inflammatory; osteoprotective;
CC	antibacterial; immunosuppressive; dermatological; neuroprotective; The
CC	nootropic; antithrombotic; virucide and antifungal activity. Kappa
CC	compounds act as selective inhibitors of cytokine-mediated NF-kappa
CC	B activation by blocking interaction of Ikappa kinase beta (IKKbeta) at
CC	the NEMO binding domain that results in inhibition of IKKalpha kinase
CC	activation and subsequent decreased phosphorylation of IkappaB. The
CC	compound are useful for treating inflammatory disorders, e.g. asthma,
CC	lung inflammation or cancer, psoriasis, rheumatoid arthritis,
CC	osteoarthritis, inflammatory bowel disease, sepsis, vasculitis,
CC	bursitis; autoimmune diseases such as lupus, polyarthritis, scleroderma,
CC	granulomatosis; multiple sclerosis; transplant rejection; osteoporosis;
CC	Alzheimer's disease; atherosclerosis; viral infections; and ataxia
CC	relanglectasia. The compounds are also useful for treating
CC	pro-inflammatory responses such as allergies, urticaria, anaphylaxis,
CC	drug or food sensitivity, eczema, dermatitis, sunburn, aging and
CC	arthritis.
CC	
SQ	Sequence 28 AA;
OY	Query Match 100.0%; Score 26; DB 23; Length 28;
DB	Best Local Similarity 100.0%; Pred. No. 19;
	Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
	1 LDASAL 6
	20 LDASAL 25
RESULT 6	
ABU08435	ABU08435 standard; peptide; 28 AA.
XX AC	ABU08435;
XX DT	12-JUN-2003 (first entry)
DE	Human mutant NEMO binding site (NBD) peptide.
XX	
KM	Human; antiinflammatory compound; NEMO binding domain; NBD; IKKbeta;
KM	IkappaB kinase-beta; IkappaB kinase-alpha; IKAlpha; NF-kappaB;
KM	nuclear factor-kappaB induction; inflammatory disorder;
KM	autoimmune disease; osteoporosis; Cancer; Alzheimer's disease;
KV	atherosclerosis; Viral infection; Ataxia telangiectasia;
KW	transplantation detection; immunosuppressive; Osteopathy;
KW	Cystostatic; nootropic; neuroprotective; antithrombotic; virucide;
KW	Vasotrophic; anti-neumatic; antiarthritic; mutant; mutein.
XX OS	Homo sapiens.
OS	Synthetic.
XX US	US2002156000-A1.
PN XX	
PD	24-OCT-2002.
PF	02-MAY-2001; 2001US-0847940.
XX PR	
PR	02-MAY-2000; 2000US-201261P.
XX PR	
PR	22-AUG-2000; 2000US-0643360.
PA	(YAAM/) MAY M J.
XX	(GHOS/) GHOSH S.
PI	May MJ, Ghosh S;
DR	WPI; 2003-209142/20.
XX PT	
PT	Novel antiinflammatory peptide compounds comprising NEMO binding
PT	domain, useful for modulating NF-kappaB induction in a cell and for
PT	treating NF-kappaB-mediated inflammation disorders e.g., asthma,
PT	psoriasis, vasculitis -
PS	Claim 22; Fig 5A; 47pp; English.

XX The present invention relates to antiinflammatory compounds comprising
 CC NEMO binding domain (NBD) peptides. The NEMO binding domains are
 CC found on IkappaB kinase-beta (IKKbeta) and IkappaB kinase-alpha
 CC (IKKalpha) proteins. The antiinflammatory compounds of the invention
 CC are useful for modulating nuclear factor-kappaB (NF-kappaB) induction
 CC in a cell, where the compounds are capable of blocking the interaction
 CC between one or more IKKs such as IKKalpha or IKKbeta, and NEMO. The
 CC antiinflammatory compound further comprises at least one membrane
 CC translocation domain. The compounds are useful for treating
 CC inflammatory disorders, autoimmune diseases, osteoporosis, cancer,
 CC Alzheimer's disease, atherosclerosis, viral infections, Ataxia
 CC telangiectasia, and for transplantation detection. The compounds of
 CC the invention block NF-kappaB induction by IKK but do not inhibit
 CC the basal activity of NF-kappaB. The present sequence represents
 CC a human mutant NBD peptide.

SQ Sequence 28 AA;

Query Match 100.0%; Score 26; DB 24; Length 28;
 Best Local Similarity 100.0%; Pred. No. 19;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LDASAL 6
 Db 20 LDASAL 25

RESULT 7
 AAY04950
 ID AAY04950 standard; Protein; 84 AA.
 AC AAY04950;
 DT 06-JUL-1999 (first entry)
 DE Mycobacterium species protein sequence 41D.
 DE Mycobacterium species protein sequence 41D.
 KM Secreted protein; Mycobacterium; primer; PCR; amplification; probe;
 KM hybridisation; detection; vaccine; immunisation; infection.
 OS Mycobacterium sp.
 PN WO9909186-A2.
 XX 25-FEB-1999.
 PD 14-AUG-1998; 98WO-FR01813.
 PF 11-SEP-1997; 97FR-0011325.
 PR 14-AUG-1997; 97FR-0010404.
 XX (INSP) INST PASTEUR.
 PA Gicquel B, Lim EM, Pelicic V, Portnoi D, Goguet de la Salmoniere Y,
 PI Guigneno A;
 PI WPI; 1999-181045/15.
 DR N-PSDB; AAX34203.
 XX Mycobacterial DNA vectors containing reporter constructs - for
 PT identifying coding or promoter sequences involved in
 PT infection-associated protein expression
 XX Claim 32; Fig 41D; 309pp; French.

CC Sequences AAY04742-Y05000 and AAY07201-Y07204 represent secreted
 CC proteins from various Mycobacterium species microorganisms. The
 CC encoding nucleotide sequences can be used as primers and probes for
 CC methods for detecting and identifying mycobacteria, especially belonging
 CC to the M. tuberculosis complex. The encoded proteins can be used in
 CC vaccines for immunisation against a bacterial or viral infection.

SQ Sequence 84 AA;

Query Match 100.0%; Score 26; DB 20; Length 84;
 Best Local Similarity 100.0%; Pred. No. 66;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LDASAL 6
 Db 8 LDASAL 13

RESULT 8
 AAY04947
 ID AAY04947 standard; Protein; 92 AA.
 AC AAY04947;
 DT 06-JUL-1999 (first entry)
 DE Mycobacterium species protein sequence 41A.
 DE Mycobacterium species protein sequence 41A.
 KM Secreted protein; Mycobacterium; primer; PCR; amplification; probe;
 KM hybridisation; detection; vaccine; immunisation; infection.
 OS Mycobacterium sp.
 PN WO9909186-A2.
 XX 25-FEB-1999.
 PD 14-AUG-1998; 98WO-FR01813.
 PF 11-SEP-1997; 97FR-0011325.
 PR 14-AUG-1997; 97FR-0010404.
 XX (INSP) INST PASTEUR.
 PA Gicquel B, Lim EM, Pelicic V, Portnoi D, Goguet de la Salmoniere Y,
 PI Guigneno A;
 PI WPI; 1999-181045/15.
 DR N-PSDB; AAX34200.
 XX Mycobacterial DNA vectors containing reporter constructs - for
 PT identifying coding or promoter sequences involved in
 PT infection-associated protein expression
 XX Claim 32; Fig 41A; 309pp; French.

CC Sequences AAY04742-Y05000 and AAY07201-Y07204 represent secreted
 CC proteins from various Mycobacterium species microorganisms. The
 CC encoding nucleotide sequences can be used as primers and probes for
 CC methods for detecting and identifying mycobacteria, especially belonging
 CC to the M. tuberculosis complex. The encoded proteins can be used in
 CC vaccines for immunisation against a bacterial or viral infection.

SQ Sequence 92 AA;

Query Match 100.0%; Score 26; DB 20; Length 92;
 Best Local Similarity 100.0%; Pred. No. 73;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LDASAL 6
 Db 77 LDASAL 82

RESULT 9
 AAY04951
 ID AAY04951 standard; Protein; 102 AA.
 AC AAY04951;
 XX

DT 06-JUL-1999 (first entry)
XX Mycobacterium species protein sequence 41F.
DE
XX Secreted protein; Mycobacterium; primer; PCR; amplification; probe;
XX hybridisation; detection; vaccine; immunisation; infection.
KW
XX Mycobacterium sp.
OS
XX WO9909186-A2.
PN
XX 25-FEB-1999.
PD
XX 14-AUG-1998; 98WO-FR01813.
PF
XX 11-SEP-1997; 97FR-0011325.
PR 14-AUG-1997; 97FR-0010404.
PR
XX (INSP) INST PASTEUR.
PA
XX Gicquel B, Lim EM, Pelicic V, Portnoi D, Goguet de la Salmonière Y,
PI Guigueno A;
PI
XX MPI: 1999-181045/15.
DR N-PSDB; AAX34204.
DR
XX Mycobacterial DNA vectors containing reporter constructs - for
PT identifying coding or promoter sequences involved in
PT infection-associated protein expression
PT
XX Claim 32; Fig 41F; 309pp; French.
PS
CC Sequences AAY04742-Y05000 and AAY07201-Y07204 represent secreted
CC proteins from various Mycobacterium species microorganisms. The
CC encoding nucleotide sequences can be used as primers and probes for
CC methods for detecting and identifying mycobacteria, especially belonging
CC to the M. tuberculosis complex. The encoded proteins can be used in
CC vaccines for immunisation against a bacterial or viral infection.
CC
SQ Sequence 102 AA;
Query Match 100.0%; Score 26; DB 20; Length 102;
Best Local Similarity 100.0%; Pred. No. 82;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CY 1 LDASAL 6
DB 26 LDASAL 31
RESULT 10
AAG35536
ID AAG35536 standard; Protein; 102 AA.
XX
AC AAG35536;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SQ ID NO: 43425.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
PN
XX 06-SEP-2000.
PD
XX 25-FEB-2000; 2000EP-0301439.
PF
XX 25-FEB-1999; 99US-0121825.
PR

PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126284.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129645.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 28-APR-1999; 99US-0130891.
PR 30-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 04-MAY-1999; 99US-0132407.
PR 05-MAY-1999; 99US-0132484.
PR 06-MAY-1999; 99US-0132485.
PR 07-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0132487.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136382.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139494.
PR 18-JUN-1999; 99US-0139495.
PR 18-JUN-1999; 99US-0139496.
PR 18-JUN-1999; 99US-0139497.
PR 18-JUN-1999; 99US-0139498.
PR 18-JUN-1999; 99US-0139499.
PR 18-JUN-1999; 99US-0139450.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139464.
PR 18-JUN-1999; 99US-0139465.
PR 18-JUN-1999; 99US-0139466.
PR 18-JUN-1999; 99US-0139467.
PR 18-JUN-1999; 99US-0139468.
PR 18-JUN-1999; 99US-0139469.
PR 18-JUN-1999; 99US-0139470.
PR 18-JUN-1999; 99US-0139471.
PR 18-JUN-1999; 99US-0139472.
PR 18-JUN-1999; 99US-0139473.
PR 18-JUN-1999; 99US-0139474.
PR 18-JUN-1999; 99US-0139475.
PR 18-JUN-1999; 99US-0139476.
PR 18-JUN-1999; 99US-0139477.
PR 18-JUN-1999; 99US-0139478.
PR 18-JUN-1999; 99US-0139479.
PR 18-JUN-1999; 99US-0139480.
PR 18-JUN-1999; 99US-0139481.
PR 18-JUN-1999; 99US-0139482.
PR 18-JUN-1999; 99US-0139483.
PR 18-JUN-1999; 99US-0139484.
PR 18-JUN-1999; 99US-0139485.
PR 18-JUN-1999; 99US-0139486.
PR 18-JUN-1999; 99US-0139487.
PR 18-JUN-1999; 99US-0139488.
PR 18-JUN-1999; 99US-0139489.
PR 18-JUN-1999; 99US-0139490.
PR 18-JUN-1999; 99US-0139491.
PR 18-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139493.
PR 18-JUN-1999; 99US-0139494.
PR 18-JUN-1999; 99US-0139495.
PR 18-JUN-1999; 99US-0139496.
PR 18-JUN-1999; 99US-0139497.
PR 18-JUN-1999; 99US-0139498.
PR 18-JUN-1999; 99US-0139499.
PR 18-JUN-1999; 99US-0139500.
PR 18-JUN-1999; 99US-0139501.
PR 18-JUN-1999; 99US-0139502.
PR 18-JUN-1999; 99US-0139503.
PR 18-JUN-1999; 99US-0139504.
PR 18-JUN-1999; 99US-0139505.
PR 18-JUN-1999; 99US-0139506.
PR 18-JUN-1999; 99US-0139507.
PR 18-JUN-1999; 99US-0139508.
PR 18-JUN-1999; 99US-0139509.
PR 18-JUN-1999; 99US-0139510.
PR 18-JUN-1999; 99US-0139511.
PR 18-JUN-1999; 99US-0139512.
PR 18-JUN-1999; 99US-0139513.
PR 18-JUN-1999; 99US-0139514.
PR 18-JUN-1999; 99US-0139515.
PR 18-JUN-1999; 99US-0139516.
PR 18-JUN-1999; 99US-0139517.
PR 18-JUN-1999; 99US-0139518.
PR 18-JUN-1999; 99US-0139519.
PR 18-JUN-1999; 99US-0139520.
PR 18-JUN-1999; 99US-0139521.
PR 18-JUN-1999; 99US-0139522.
PR 18-JUN-1999; 99US-0139523.
PR 18-JUN-1999; 99US-0139524.
PR 18-JUN-1999; 99US-0139525.
PR 18-JUN-1999; 99US-0139526.
PR 18-JUN-1999; 99US-0139527.
PR 18-JUN-1999; 99US-0139528.
PR 18-JUN-1999; 99US-0139529.
PR 18-JUN-1999; 99US-0139530.
PR 18-JUN-1999; 99US-0139531.
PR 18-JUN-1999; 99US-0139532.
PR 18-JUN-1999; 99US-0139533.
PR 18-JUN-1999; 99US-0139534.
PR 18-JUN-1999; 99US-0139535.
PR 18-JUN-1999; 99US-0139536.
PR 18-JUN-1999; 99US-0139537.
PR 18-JUN-1999; 99US-0139538.
PR 18-JUN-1999; 99US-0139539.
PR 18-JUN-1999; 99US-0139540.
PR 18-JUN-1999; 99US-0139541.
PR 18-JUN-1999; 99US-0139542.
PR 18-JUN-1999; 99US-0139543.
PR 18-JUN-1999; 99US-0139544.
PR 18-JUN-1999; 99US-0139545.
PR 18-JUN-1999; 99US-0139546.
PR 18-JUN-1999; 99US-0139547.
PR 18-JUN-1999; 99US-0139548.
PR 18-JUN-1999; 99US-0139549.
PR 18-JUN-1999; 99US-0139550.
PR 18-JUN-1999; 99US-0139551.
PR 18-JUN-1999; 99US-0139552.
PR 18-JUN-1999; 99US-0139553.
PR 18-JUN-1999; 99US-0139554.
PR 18-JUN-1999; 99US-0139555.
PR 18-JUN-1999; 99US-0139556.
PR 18-JUN-1999; 99US-0139557.
PR 18-JUN-1999; 99US-0139558.
PR 18-JUN-1999; 99US-0139559.
PR 18-JUN-1999; 99US-0139560.
PR 18-JUN-1999; 99US-0139561.
PR 18-JUN-1999; 99US-0139562.
PR 18-JUN-1999; 99US-0139563.
PR 18-JUN-1999; 99US-0139564.
PR 18-JUN-1999; 99US-0139565.
PR 18-JUN-1999; 99US-0139566.
PR 18-JUN-1999; 99US-0139567.
PR 18-JUN-1999; 99US-0139568.
PR 18-JUN-1999; 99US-0139569.
PR 18-JUN-1999; 99US-0139570.
PR 18-JUN-1999; 99US-0139571.
PR 18-JUN-1999; 99US-0139572.
PR 18-JUN-1999; 99US-0139573.
PR 18-JUN-1999; 99US-0139574.
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 KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
 KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
 KW tissue growth factor; immunomodulatory; cancer; leukaemia;
 KW nervous system disorders; arthritis; inflammation.
 XX OS Homo sapiens.
 XX PN WO200164835-A2.
 XX PD 07-SEP-2001.
 XX PF 26-FEB-2001; 2001MO-US04927.
 XX PR 28-FEB-2000; 2000US-0515126.
 XX PR 18-MAY-2000; 2000US-0577409.
 XX PA (HYSE-) HYSEQ INC.
 XX PI Tang YT, Liu C, Dymnac RT;
 XX XX

DR WPI: 2001-514836/56.
DR N-PSDB: AA181838.
XX Isolated nucleic acids and polypeptides, useful for preventing
PT diagnosing and treating e.g. leukaemia, inflammation and immune
PT disorders -
XX
PS Claim 20; SEQ ID NO 15799; 1399pp + Sequence Listing; English.
XX
CC The invention relates to human polynucleotides (AA179941-AA193641) and
CC the encoded proteins (AA000010-AA013910) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
CC
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SQ Sequence 138 AA;
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AC AAG35534;
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 43423.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
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DB 121 LDASAL 126

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ID AAG90584 standard; Protein; 240 AA.

AC AAG90584;

DT 26-SEP-2001 (first entry)

DE C glutamicum protein fragment SEQ ID NO: 4338.

XX Coryneform bacterium; amino acid synthesis; vitamin; saccharide;
KW organic acid synthesis.

OS Corynebacterium glutamicum.

PN EP108790-A2.

XX 20-JUN-2001.

PF 18-DEC-2000; 2000EP-0127688.

XX 16-DEC-1999; 99UP-0377484.

PR 07-APR-2000; 2000UP-0159162.

PR 03-AUG-2000; 2000UP-0280988.

XX (KYOWA) KYOWA HAKKO KOGYO KK.

XX Nakagawa S, Mizoguchi H, Ando S, Hayashi M, Ochiai K, Yokoi H;

PI Tateishi N, Senoh A, Ikeda W, Ozaki A;

DR N-PSDB; AAH65803.

XX Novel polynucleotides derived from Coryneform bacteria, for identifying

PT mutation point of a gene, measuring expression of a gene, analysing

PT expression profile or pattern of a gene and identifying homologous gene

PS Claim 17; SEQ ID NO: 4338; 246pp + Sequence Listing; English.

XX The present invention provides a number of nucleotide and protein

CC sequences from the Coryneform bacterium Corynebacterium glutamicum. These

CC are useful for identifying the mutation point of a gene derived from a

CC mutant of coryneform bacterium, measuring expression amount and

CC analysing the expression profile or expression pattern of a gene derived

CC from Coryneform bacterium, and identifying a homologue of a gene derived

CC from coryneform bacterium. Coryneform bacteria are useful for producing

CC amino acids, nucleic acids, vitamins, saccharides and organic acids,

CC particularly L-lysine. The present sequence is a protein described

CC in the exemplification of the invention.

CC Note: The sequence data for this patent did not form part of the printed

CC specification, but was obtained in electronic format directly from the

CC European Patent Office.

XX Sequence 240 AA;

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DB 70 LDASAL 75

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AC AAG51025;

DT 18-OCT-2000 (first entry)

DE Arabidopsis thaliana protein fragment SEQ ID NO: 64719.

XX Protein identification; signal transduction pathway; metabolic pathway;

KW hybridisation assay; genetic mapping; gene expression control; promoter;

XX termination sequence.

OS Arabidopsis thaliana.

PN EP1033405-A2.

XX 06-SEP-2000.

PF 25-FEB-2000; 2000EP-0301439.

XX 25-FEB-1999; 99US-0121825.

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